



**Undergraduate Programs, Courses and
University Regulations**

**Programs, Courses and University Regulations
2013-2014**

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Note: Throughout this publication, "you" refers to students newly admitted, readmitted or returning to McGill.

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1 University Regulations and Resources

1.1 General Policies and Information

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *General Policies and Information* section of this publication contains important details required by students during their studies at McGill and should be periodically consulted, along with other sections and related publications.

1.1.1 Authorization, Acknowledgement, and Consent

When applying for admission to the University, you are bound by and agree to observe all statutes, rules, regulations, and policies at McGill University and the faculty or faculties to which you may be accepted and registered in, including policies contained in the University Calendars and related fee documents. Your obligation as a student begins with your registration and ends in accordance with the University's statutes, rules, regulations, and policies.

You should verify all information or statements provided with your application. Incorrect or false information may jeopardize your admission. The University reserves the right to revoke an admission that is granted based on incorrect or false information in an application or supporting documents.

1.1.2 Student Rights and Responsibilities

The *Handbook on Student Rights and Responsibilities* is produced jointly by the Office of the Dean of Students and the University Secretariat. It contains regulations and policies governing your rights and responsibilities as a student at McGill, and is available to you electronically at www.mcgill.ca/secretariat/policies/students.

To find out more about this topic, see: www.mcgill.ca/students/srr.

1.1.3 Language Policy

The main language of instruction at McGill is English. You have the right to write essays, examinations, and theses in English or in French except in courses where knowledge of a language is one of the objectives of the course.

If you need to improve your English skills, you should take an intensive course in English as a second language before or at the start of your studies. Information concerning second language course offerings can be found through the School of Continuing Studies at www.mcgill.ca/conted/langprg and the French Language Centre at www.mcgill.ca/flc, and in the publications *Programs, Courses and University Regulations > Faculties & Schools > Summer Studies* and *Programs, Courses and University Regulations > Faculties & Schools > School of Continuing Studies*. There are special language requirements for Faculty of Education students; see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Education*.



Note for the Faculty of Law: Due to the bilingual nature of the Law program, examinations, term papers, and essays may be written in either English or French. Participation in Moot Courts may also be in either language. While examination questions are set in the language in which a course is given, they may contain materials in either English or French.

1.1.4 Academic Integrity

Before submitting work in your courses, you must understand the meaning and consequences of plagiarism and cheating, which are serious academic offences. Inform yourself about what might be considered plagiarism in an essay or term paper by consulting the course instructor to obtain appropriate referencing guidelines. You should also consult *Fair Play*, the student guide to academic integrity available at www.mcgill.ca/students/srr/honest. There you will also find links to instructional tutorials and strategies to prevent cheating. The *Code of Student Conduct and Disciplinary Procedures* includes sections on plagiarism and cheating. The possession or use of unauthorized materials in any test or examination constitutes cheating. You can find the *Code* in the *Handbook on Student Rights and Responsibilities* or at www.mcgill.ca/students/srr/publications.

Responses on multiple-choice exams are normally checked by the Exam Security Computer Monitoring program. The program detects pairs of students with unusually similar answer patterns on multiple-choice exams. Data generated by this program can be used as admissible evidence in an investigation of cheating under Article 16 of the *Code of Student Conduct and Disciplinary Procedures*.

The Office of the Dean of Students administers the academic integrity process as described in the *Handbook on Student Rights and Responsibilities*.

1.1.5 University Student Assessment Policy

The *University Student Assessment Policy* includes all disparate policies with regard to all types of student assessments. This policy is meant to protect students from excessive workloads, and to ensure that all students are treated equally.

This policy applies to undergraduate and graduate courses offered by the University that are evaluated by any form of assessment. Except where otherwise indicated, this policy applies to all faculties, including those which administer their own examinations.

You can consult the policy at [University Student Assessment Policy](#).

1.1.6 Policy Concerning Access to Records

The University sends statements of account and all other correspondence directly to students. You retain full control over who has access to your records or accounts; however, officers and members of the University staff also have access to relevant parts of your records for recognized and legitimate use. The University does not send progress reports or any other information to your parents and/or sponsors unless you specifically request it in writing.

In accordance with Quebec's *Act respecting Access to documents held by public bodies and the Protection of personal information* (the "Access Act"), personal information, including transcripts of academic records, may be released only with the student's authorization. When you apply to McGill, you authorize the University to release certain personal information (name, address, telephone number, email address, date of birth, program, and student status) to specific persons and bodies.

The following persons and bodies are included in your information release authorization:

1. Libraries of other Quebec universities with which McGill has reciprocal borrowing agreements (ID number and bar code may also be disclosed to those libraries)
2. *Ministère de l'Immigration et des Communautés culturelles* and/or the *Régie de l'assurance-maladie du Québec* and the *Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie*
3. The appropriate authorities involved with the external or internal funding of your student fees (financial records may also be disclosed to those authorities)
4. The Association of Universities and Colleges of Canada
5. The Association of Registrars of Universities and Colleges of Canada and the *Conférence des recteurs et des principaux des universités du Québec*, or the member institutions of these organizations, for the purpose of admissions operations and the production of statistics
6. The school(s) or college(s) that you attended
7. Students and alumni who have volunteered to speak with admitted students
8. Student Associations recognized by McGill University for the student category(ies) to which you belong
9. The McGill Alumni Association
10. Professional bodies or corporations (e.g., engineers, dentists)
11. McGill Network and Communications Services for the purposes of listing your McGill email address in an online email directory

If you do not want to authorize the University to disclose personal information to the organizations mentioned above in 8, 9, 10, and 11, you must complete an *Opposition Form*, available at www.mcgill.ca/students/records/forms.

1.1.7 Email Communication

All students are assigned a McGill Email Address (usually in the form of firstname.lastname@mcgill.ca) and are given a McGill email mailbox. You can view your McGill Email Address and set your McGill Password on Minerva (www.mcgill.ca/minerva), under the *Personal Menu*.

Email sent to your McGill Email Address is an official means of communication between McGill University and its students. As with all official University communications, it is your responsibility to ensure you read and act upon University emails in a timely fashion. If you choose to forward University email to another email mailbox, it is your responsibility to ensure that the alternate email mailbox is valid.

You should read and familiarize yourself with the policies on *Responsible Use of McGill Information Technology Resources* and *Email Communications with Students*, found under *Information Technology* on the University Secretariat website at www.mcgill.ca/secretariat/policies/informationtechnology. For more information on email for students, refer to www.mcgill.ca/it and see [section 1.17: For your Information Technology \(IT\) needs](#).

1.1.8 Responsible Use of McGill Information Technology Resources

You must comply with the *Policy on the Responsible Use of McGill Information Technology Resources* as approved by the University Senate. You can find this policy in the listing of *University Policies, Procedures and Guidelines* under *Information Technology*, at www.mcgill.ca/secretariat/policies/informationtechnology.

1.1.9 Non-Smoking Policy

Quebec law prohibits smoking in public buildings. For more information, see www.mcgill.ca/adminhandbook/administrative-policies-and-procedures/smoking.

1.1.10 Health Professions – Immunization Requirement

A compulsory immunization program exists at McGill for students in the health professions (including Dietetics), as well as in the School of Social Work. If you are a new student in those programs, you must complete the immunization program well before classes begin. You can find further information at www.mcgill.ca/studenthealth/forms or by calling the Student Health Service at 514-398-6017.

1.1.11 Health Insurance – International Students

By Senate regulation, all international students (full-time, part-time, half-time, Additional Session, Special, Exchange, and Visiting) and their accompanying dependants must participate in the University's compulsory International Student Health Insurance Plan. The University and the Quebec Ministry of Education require a copy of your proof of health insurance on file. **Students covered by private health insurance are not exempt from the McGill plan.** You must pick up an International Health Insurance card from Service Point upon your arrival at McGill University.

Students who meet certain criteria may be eligible for an [exemption](#). If you believe you are eligible, you must submit an online exemption request on Minerva and present valid documentation proving eligibility to Service Point before the [deadline](#).

Service Point
3415 McTavish Street
Montreal, Quebec H3A 0C8

For enrolment procedures and details on the health insurance plan and information concerning rates, consult the website:
www.mcgill.ca/internationalstudents/health.

All inquiries related to this University policy must be directed to International Student Services:

International Health Insurance
Telephone: 514-398-6012
Email: international.health@mcgill.ca
Website: www.mcgill.ca/internationalstudents/health

1.1.12 Health Insurance – Canadian Residents

If you are a Canadian student from outside Quebec, you should check with your provincial medicare office to ensure that you have valid health coverage while studying at McGill.

If you are a Canadian student who has been living abroad, you may not be eligible for provincial health insurance coverage. To ensure adequate health insurance coverage, you may enrol in the group plan offered through International Student Services (www.mcgill.ca/internationalstudents/health/canadian-non-resident). Please note that this option is available only during the first month of each new semester at McGill.

All undergraduate students who pay tuition fees at either the Canadian or Quebec rates and who are members of the Students' Society of McGill University (SSMU) or the Macdonald Campus Students' Society (MCSS) are automatically covered by their applicable Students' Society's Health and Dental Plans. For details on fees, change of coverage dates, and on what is covered by the plans, refer to www.ihaveaplan.ca. If you're not sure of your eligibility, contact the *Alliance pour la santé étudiante au Québec* (ASEQ) at 514-789-8775 or 1-866-795-4435, Monday to Friday, from 9 a.m. to 5 p.m. (www.aseq.com).

1.1.13 Special Medical Needs

If you have special medical needs, have your physician submit appropriate information, on a confidential basis, directly to the Student Health Service; see [section 1.14.2: Student Services – Downtown Campus](#) or (www.mcgill.ca/studenthealth/clinic) for contact information on the Downtown campus, and see www.mcgill.ca/macdonald-studentservices/feeling-sick for Macdonald campus.

1.1.14 Minerva

Minerva is McGill's web-based information system serving applicants, students, staff, and faculty. To access Minerva, go to www.mcgill.ca/minerva and log in. Once logged in, you can:

- Apply to McGill and view your application status
- View class schedules, including course descriptions and spaces available in course sections
- Register and make course changes
- Change your major or minor program (not all faculties)
- View your unofficial transcript and degree evaluation reports
- View your McGill login information to access the Internet and email
- View your Permanent Code, citizenship, and Quebec residency status and fee information
- Update personal information such as address, telephone number, and emergency contacts
- Submit an online course evaluation
- Submit an application to participate in an exchange program (not all faculties)
- Apply to graduate
- View graduation status and convocation details
- Order official transcripts

- Retrieve tax receipts

For information on logging in to the Minerva website, visit our IT Services website at www.mcgill.ca/it and select **Logins and Passwords**.

1.1.15 myMcGill

McGill's portal, myMcGill, gives students and staff a personalized interface to the University's information systems.

myMcGill is a collection of useful links and offers an integrated web experience with a single sign-on (SSO) to several McGill web systems. This allows you to access multiple McGill systems without being prompted for additional logins.

Systems that you can access through the portal are:

- Athletics
- Classroom A/V instructions
- Exchange (email)
- FAMIS
- Gateway (www.mcgill.ca)
- InfoEd
- Library
- Minerva
- myCourses
- myFuture
- myLab

To access myMcGill, click **Quick Links**, available at the top of any McGill web page (e.g., www.mcgill.ca/students), and then click myMcGill, or go to <https://mymcgill.mcgill.ca>. Sign in with your McGill Username and McGill Password.

1.2 Personal Information

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Personal Information* section of this publication contains important details pertaining to nominative information, legal documents, ID Cards, as well as other topics, and should be consulted periodically.

1.2.1 Updating Personal Information

It is important to keep your official records up to date, especially your mailing or billing address, because these are used by the University year round. If your address information on file is invalid, incomplete, or missing, the University will hold your mail. Once you have provided a valid address, the University will resume sending your mail.

You must update your address(es) and/or telephone number(s) and emergency contact information on Minerva (www.mcgill.ca/minerva) under the *Personal Menu*.

If you are away from campus and do not have access to the Internet, you can request changes by writing to your Student Affairs Office or to Service Point. Your written request must include your signature.

If you need to change important personal information that requires the University to verify official documents, such as a name or citizenship change, or correction of your birth date, you must go in person (as soon as possible) to Service Point, 3415 McTavish Street, Montreal, Quebec, H3A 0C8. Macdonald campus students can request changes in person at the Student Affairs Office, Laird Hall, Room 106.

1.2.2 Legal Documents: Why Does McGill Collect Legal Documents from You?

Your tuition status at McGill will vary depending on your status in Canada. In order for us to determine your appropriate rate of tuition (Quebec, Canadian out-of-province, or international), we require legal documents confirming your current status. We also require these documents to confirm your valid citizenship/immigration status. To find out which documents you must provide—and when they are required—refer to: [section 1.2.3: Legal Documents: What Documents Does McGill Need from You?](#)

Some of the documents McGill requests of you help us obtain your **Permanent Code** from the Government of Quebec. This unique 12-character code is issued by the Government of Quebec, and is obligatory for all students registered in a Quebec institution.

If you have previously attended school in Quebec, you already possess a Permanent Code, which can be found on your school report card or your CEGEP and/or university transcripts. After you have accepted the University's offer of admission, you can check on Minerva (under the *Personal Menu*) to see if McGill has received your Permanent Code.

You can consult your tuition and legal status (including your Permanent Code) on Minerva (www.mcgill.ca/minerva). Select *Student Menu > Student Accounts Menu > View your Tuition and Legal Status*.

1.2.3 Legal Documents: What Documents Does McGill Need from You?

Follow the instructions in the first row of this table that apply to you. **Send clear, legible copies of documents (not originals).**

Quebec and Canadian Out-of-Province Students

You have applied to McGill directly from CEGEP or you already have a student record at McGill

- **Usually** no documents are required for your Canadian and/or Quebec status, based on McGill's records or as confirmed by the Government of Quebec

You have applied to McGill from another Quebec university

- Proof of Canadian status is required: Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card)
- Additionally, for your Quebec residency status, **usually** no documents are required, unless McGill cannot confirm this from the Government of Quebec

You were born in Quebec

- Quebec **birth certificate** (Note 4)
- Permanent Code Data Form (Notes 1 and 5)

You were born in (or are a Landed Immigrant from) a Canadian province other than Quebec

- Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card)
- Permanent Code Data Form (Notes 1 and 5)

You are a Quebec resident as defined by one of the other situations outlined by the Government of Quebec

- Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card)
- Permanent Code Data Form (Notes 1 and 5)
- Attestation of Residency in Quebec Form (Note 5)
- **Other supporting documents**, depending on which situation you checked on the above Attestation of Residency Form

International Students

You will be studying at McGill for less than six months (i.e., for only one academic semester) as a non-degree student (e.g., Exchange, Special, Visiting)

- Visitors Permit issued at your port of entry into Canada by Citizenship and Immigration Canada
- Photo page of your passport and the page date-stamped by Citizenship and Immigration Canada at your port of entry
- Permanent Code Data Form (Notes 1 and 5)

You will be in Canada for more than six months (i.e., you are enrolled in a degree, certificate, or diploma program, usually for two or more consecutive academic semesters)

- Certificate of Acceptance of Quebec (CAQ)
- Permanent Code Data Form (Notes 1 and 5)
- Study Permit issued by Immigration Canada (Note 3)



Note 1: Your signed Permanent Code Data Form is usually required. If the names of your parents appear on your birth certificate, or if you have already provided McGill with your Permanent Code, you do not need to supply this form.



Note 2: Your valid Canadian Permanent Resident status can be proved by a copy of your Canadian Confirmation of Permanent Residence (IMM 5292 or IMM 5688) document or with your Canadian Permanent Resident card (copy of both sides required). Alternatively, you may provide your Immigration Record of Landing (IMM 1000) document. Note that McGill reserves the right to ask you for copies of both your PR card and your IMM document.



Note 3: If you are a refugee, your Convention Refugee status document is required instead of a Study Permit.



Note 4: Usually McGill needs your birth certificate to prove your place of birth in Quebec. If you already have a valid Quebec Permanent Code, McGill will accept a copy of your valid Canadian passport that indicates your birth place as being within the province of Quebec, as proof that you qualify for Quebec residency.



Note 5: You can find links to download and print the Permanent Code Data and Attestation of Quebec Residency forms at www.mcgill.ca/legaldocuments/forms.

1.2.3.1 Fee Exemptions

Exemption from the out-of-province or international supplement tuition fees is possible for students in any of the following three categories, as authorized by the Government of Quebec:

1. French Course Fee Exemptions – Non-Quebec Canadian and international students are automatically assessed fees for certain eligible French courses at the Quebec tuition rate (note exclusions as listed at www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions).
2. Out-of-province Tuition Supplement Exemptions – Non-Quebec Canadian students in the following categories are exempted from out-of-province tuition supplements (details at www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions):
 - Students in a Ph.D. program
 - Students in a Post-Graduate Medical Education program: Medical Residents, Clinical Fellows, Clinical Research Fellows, Research Fellows
 - Students registered full-time in the Masters in French (Maîtrise en français). The exemption begins at the moment the student registers in the program, without retroactive effect.
3. International Students Eligible for Fee Exemptions Based on Legal Status in Canada – Students with one of the following statuses may be exempt from International Supplements (certain categories may be assessed at the Canadian tuition rate; full details regarding eligibility criteria are listed at www.mcgill.ca/legaldocuments/exemption):
 - Citizens of France
 - Citizens of certain countries with an agreement with the Government of Quebec
 - Diplomatic, consular or other representatives of international organizations
 - Convention refugees
 - Students awaiting permanent residency in Canada and holding an eligible CSQ
 - Students whose spouse or unmarried students whose parent holds a Temporary Work Permit in Canada
 - Students funded by the FRSQ (*Fonds de la recherche en santé du Québec*)

These exemptions lower your fees to the Quebec rate of tuition. More detailed information for the categories listed above are available at www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions as well as at www.mcgill.ca/legaldocuments/exemption.

Note that this information may be subject to change.

1.2.4 Legal Documents: Has McGill Received Your Documents?

1.2.4.1 Quebec/Canadian/International Fees and Immigration Status

Once McGill has received your documents, it usually takes one week to process them and update your file accordingly.

- Check your tuition status on the Minerva (www.mcgill.ca/minerva) Student Accounts menu: *Student Menu > Student Accounts Menu > View Tuition Fee and Legal Status*.
- Check the phrase: *Fees currently calculated according to rules for...* This will tell you if your tuition status is currently being billed at the international rate, the Canadian rate, or at the Quebec rate. For information on fees, see www.mcgill.ca/student-accounts.
- Electronic billing is the official means of delivering fee statements to all students; you may view your e-bill on Minerva. For more information, see the following website: www.mcgill.ca/student-accounts.

If you do not agree with your tuition status, notify McGill right away. If you provide additional documentation in support of your file after the last day of classes for the given term, McGill will be unable to accept your requested changes, or to update your tuition status rate for that term.

1.2.4.2 Permanent Code

The Government of Quebec usually takes one to four weeks to verify or issue your Permanent Code.

- Check your Permanent Code on Minerva: *Personal Menu > Name Change* or alternately via *Student Menu > Student Accounts Menu > View Tuition Fee and Legal Status*. If your 12-character Permanent Code appears there, your documents are in order. If not, you have not yet provided McGill with your documents listed in [section 1.2.3: Legal Documents: What Documents Does McGill Need from You?](#) or the Government of Quebec has not yet confirmed that your documents are sufficient to create a Permanent Code.

1.2.5 Legal Documents: What Are the Consequences of Not Providing Your Documents?

The deadline to submit documents in support of a change to your tuition status effective for that term is the last day of classes for that term (e.g., December 1st for changes to be made to your tuition status for the Fall term, or April 1st for changes to be made for the Winter term).

McGill will not produce your ID card until all of your legal documents have been received. Your ID card is essential to the use of many services on campus, and to take your final exams.

If we are missing the required legal documents, a hold will be added to your record preventing you from registering or dropping any courses, and from obtaining your official transcript.

International students who have not provided their valid immigration documents to McGill may be de-registered.

If your tuition status is changed and your fees are reduced as a result of the document review process, McGill will waive the difference on any accumulated late payment or interest charges.

1.2.6 Legal Documents: Where Do I Send My Documents?

You must send in all your documents after you have been accepted to McGill but before the start of classes. **Do not send originals.** Email or mail clear and legible copies of your documents. Write your McGill student ID on each document so that McGill can match them to your record. The sooner you submit your documents, the sooner the University can update your status and ensure that your record is in order. Refer to www.mcgill.ca/legaldocuments for further details.

By Email:

Follow these steps to submit your legal documents electronically.

1. Save the attached file in an accepted format.

Standard PDF (.pdf) – encrypted PDFs will not be accepted.

Tagged image format (.tif, .tiff for scanned images).

Ensure that you save your documents properly in one of the above formats—do not just rename the file extension. Due to the possibility of computer viruses, McGill does **not** accept Microsoft Word documents (.doc), hypertext files (.htm, .html), JPG, GIF, or any other format.

2. Ensure that the resolution used is at least 300 dpi (dots per inch) for an electronic replica (scan) of documentation (e.g., a scan of your birth certificate). The preferred file size is 100KB per image.

3. Address your email to legaldocumentation@mcgill.ca and attach your relevant scanned document(s). Attach the file(s) to your email; do not include the documents in the body of your email.

4. Put your First Name, Last Name, and McGill ID number in the subject line of your email.

Note: Individual email size (including your attachments) should not exceed 5 MB (5120 KB).

By Mail or Courier:

McGill University
Enrolment Services
Student Records
Room MS-13
3415 McTavish St.
Montreal, QC H3A 0C8 CANADA

In Person:

[Service Point](#)
3415 McTavish Street
Montreal, Quebec H3A 0C8

If there is a problem with your documents, contact:

Telephone: 514-398-7878

Email: <http://webforms.mcgill.ca/servicepoint/request.asp>

1.2.6.1 For the School of Continuing Studies

By Mail or in Person:

McGill University
The School of Continuing Studies, Client Services Office
688 Sherbrooke Street West
Suite 1199

Montreal, QC H3A 3R1

By Fax:

514-398-2650

If there is a problem with your documents, contact Client Services at:

Telephone: 514-398-6200

Email: info.conted@mcgill.ca; legaldocuments.conted@mcgill.ca

1.2.7 Identification (ID) Cards

As a student registered at McGill, you are required to present an ID card to:

- write examinations;
- use libraries and student services, including certain laboratories;
- access residence buildings;
- access meal plans;
- access the inter-campus shuttle bus.

To receive your ID card you must be a registered student, while also providing your Permanent Code information and proof of legal status in Canada (for a list of acceptable documents, see [section 1.2.3: Legal Documents: What Documents Does McGill Need from You?](#)).

ID cards will not be issued if any of your legal documents are missing.

The Student Identification Card is the property of the University, for use by the cardholder only, and is not transferable. If you withdraw from all of your courses, you must attach your ID card to the withdrawal form or return it to Enrolment Services (or the Faculty of Agricultural and Environmental Sciences, Student Affairs Office, Macdonald Campus).

- New students must be registered for at least one course to obtain an ID card.
- You must allow at least three hours after you have registered before applying for your ID card.
- If you do not register for consecutive terms, you should retain your ID card to avoid having to replace it when you re-register.
- If your card has expired, there is no charge for a replacement as long as you hand in the ID card.
- If you change programs or faculties, there is no charge as long as you hand in the ID card.
- If your card has been lost, stolen, or damaged, there is a \$25 replacement fee.
- If you need security access to labs or other facilities, see www.mcgill.ca/security/services-0/access-control.

1.2.7.1 ID Card Schedule for the Downtown Campus:

The locations and opening hours of ID card centres can be found on the Student Information website at www.mcgill.ca/students/records/id.

- **New Quebec CEGEP students** (once they register for at least one course) can obtain their ID cards as of June 10, 2013.
- **New Canadian and International students** (once they register for at least one course) can obtain their ID cards as of June 17, 2013.
- Returning students must be registered for at least one course, and may present themselves at an ID card centre at any time in order to obtain a replacement card.

1.2.7.2 ID Card Schedule for the Macdonald Campus:

Registered students can obtain an ID card from June 10, 2013.

Student Affairs Office, Room 106, Laird Hall

Office hours:

Monday through Friday – 9:00 a.m. to 4:00 p.m.

Friday throughout the summer – 9:00 a.m. to 3:00 p.m.

Closed for Monday, June 24, and Monday, July 1

1.2.8 Name: Legal Name

This is the name that will appear on your e-bills, tax receipts, degree, diploma, or certificate on graduation, and on your transcript. It is also used by the Government of Quebec to create a Permanent Code.

All students are registered under their legal name as it appears in one of the following documents:

1. Canadian birth certificate
2. Canadian Immigration Record of Landing (IMM 1000 or IMM 5292 or IMM 5688 and Permanent Residence card, both sides)
3. Canadian Immigration Study or Work Permit document
4. Certificate of Acceptance of Quebec (CAQ)
5. International passport (for Canadians, a Canadian citizenship card is required. Note that a Canadian passport is not acceptable.)
6. Letter from international student's consulate or embassy in Canada
7. Marriage certificate issued outside of Quebec (translated into English or French by a sworn officer if in another language). Note that Quebec marriage certificates are only acceptable if issued prior to 1984.
8. Certificate of Name Change issued by the Quebec *Directeur de l'état civil*

In the case of a variation in the spelling of the name among these documents, the University will use the name on the document that appears first on the above list.

1.2.9 Name: Preferred First Name

You can provide a preferred first name on your application for admission or, once admitted, on Minerva (www.mcgill.ca/minerva), under the *Personal Menu*. From the *Personal Menu*, select *Name Change* and you will be able to add/modify this field.

Your preferred first name appears on class lists (in parentheses beside your legal name) for use by instructors. Note that your legal name will continue to appear on your e-bills, tax receipts, transcript and diploma.

You can request to have your preferred first name display as part of your McGill Email Address by submitting a change to Network and Communication Services via REGGIE (www.mcgill.ca/reggie). For more information, see www.mcgill.ca/students/records/address.

1.2.10 Name: Verification of Name

You should verify the accuracy of your name on McGill's student records via Minerva (www.mcgill.ca/minerva). To do this, go to *Personal Menu* > *Name Change*, where you can make minor corrections such as changing case (upper/lower), adding accents, and spacing.

Note that you cannot change the name on your record via Minerva. Requests for such changes must be made by presenting official documents (see [section 1.2.8: Name: Legal Name](#) and [section 1.2.9: Name: Preferred First Name](#)) in person at *Service Point*, 3415 McTavish Street, Montreal, Quebec, H3A 0C8.

1.3 Registration

Once you have confirmed your intention to attend McGill on Minerva at www.mcgill.ca/minerva, you must register by adding courses to your record during the registration periods listed at www.mcgill.ca/importantdates. You must register on Minerva and can continue to do so throughout the registration period by adding and dropping courses until you have finalized your schedule.

All course descriptions are available at [Class Schedule](#). If you are a new student, you should refer to [section 1.3.2: Course Information and Regulations](#) to familiarize yourself with McGill's course numbering system ([section 1.3.2.1.1: Course Numbering](#)), multi-term course rules ([section 1.3.2.1.2: Multi-term Courses](#)), and course terminology ([section 1.3.2.1.3: Course Terminology](#)).

For fee policies related to registration and withdrawal from courses or withdrawal from the University, please refer to [section 1.4: Fees](#).



Note for the Faculties of Arts and Science (including B.A. & Sc.): For detailed information on registration, you can also refer to:

- Arts: www.mcgill.ca/oasis
- Science and B.A. & Sc.: www.mcgill.ca/science/student



Note for the Faculty of Engineering:

- If you are a returning student, it is mandatory that you see a departmental/school academic adviser to review your course selection at the beginning of the Fall and Winter terms.
- If you are a new student, it is mandatory that you see a departmental/school academic adviser during the advising period. For advising days, times and locations for new students, see www.mcgill.ca/engineering/student/sao/newstudents.



Note for the Faculty of Law: All first-year students and all new students in the Faculty of Law must register by adding the registration confirmation course REGN RCLW on Minerva at www.mcgill.ca/minerva. The registration period for new Law students for the 2013–2014 academic year begins Tuesday, July 9 and ends Tuesday, September 3, 2013.

All first-year students and new students must present themselves at the Faculty of Law on Thursday, August 29, 2013 to complete their registration. Welcoming of new students will follow registration.

Returning Students – At the end of the Winter term, students in upper years are required to register on Minerva indicating their course selections for the next academic year.

Students in the Faculty of Law should consult registration materials available at www.mcgill.ca/law-studies/courses.

1.3.1 Registration Periods

The dates given below were accurate when this publication was finalized. Although changes are not anticipated, you should confirm the dates at www.mcgill.ca/importantdates.

1.3.1.1 Returning Students

Registration for undergraduates will take place between Tuesday, April 9 and Wednesday, August 14, 2013.

Registration will open in the following order:

Opening Registration Dates	
Year 3 and Year 4 students:	Tuesday, April 9
Year 2 students:	Wednesday, April 10
All other returning students:	Thursday, April 11

On each of these days, registration is phased in over the morning: 8:00 a.m., 10:00 a.m., and 11:30 a.m. Please see [Important Dates](#) for details.

Some faculties and departments set their own schedules for advising and registration as of these dates. Further information is available at the faculty student affairs offices and website. For more information, see www.mcgill.ca/students/advising/advisordirectory.

To successfully complete registration, you must have an acceptable Academic Standing from the previous session and have paid any outstanding fees and/or fines.



Note for the Faculty of Law: In order to facilitate access to small enrolment courses and ensure equity among students, registration priorities are programmed in Minerva. These priorities, established after consultation between the Faculty and the Law Students Association, are made on a rolling basis by class year (i.e., fourth-year students register first). Priority registration dates are established by the Student Affairs Office and posted at www.mcgill.ca/law-studies/courses.

1.3.1.2 Newly Admitted Students Entering in September 2013

Registration will take place between Monday, June 10 and Wednesday, August 14, 2013.

Registration will open in the following order:

Monday, June 10, registration opens for students admitted from Quebec CEGEPs.

Monday, June 17, registration opens for students **whose highest level of education** prior to registering at McGill is a French Baccalaureate, International Baccalaureate, or at least one year of university, or who were admitted on the basis of Advanced Levels, CAPE, or other academic qualifications, which provides for Advanced Standing credit, and who have classification of Year 1 (U1) or higher.

Tuesday, June 18, registration opens for students **whose highest level of education** prior to registering at McGill is **high school, and who have been admitted to the following faculties/schools/degrees: Arts (including School of Social Work), B.A.&Sc., Education, Management, Music, and Religious Studies.**

Wednesday, June 19, registration opens for students **whose highest level of education** prior to registering at McGill is **high school, and who have been admitted to the following faculties/schools: Agricultural and Environmental Sciences, Engineering (including Architecture), Nursing, Occupational Therapy, Physical Therapy, and Science.**

If you are a newly admitted student in September 2013 and you want to register for courses in the Summer of 2013, you can do so on Minerva. Please check *Programs, Courses and University Regulations > Faculties & Schools > Summer Studies* for further information at www.mcgill.ca/study or see www.mcgill.ca/summer.



Note for the Faculty of Law: **Tuesday, July 9**, registration opens for newly admitted students. Students must add their registration confirmation course via Minerva. You can find instructions on how to use Minerva (www.mcgill.ca/minerva) in your Orientation package, along with a Course Language Selection form. Once you have confirmed your registration, the Law Student Affairs Office will add your first-year courses based on your Language Selection form.

1.3.1.3 Newly Admitted Students Entering in January 2014

Registration will take place between Tuesday, December 3, 2013, and Monday, January 6, 2014.

Some faculties and departments require that you meet with an adviser before registration and set specific dates for advising and registration within these dates. Please refer to the faculty sections of this publication, as well as the *Welcome to McGill* publication (or website at www.mcgill.ca/newstudents) or the *Essential Guide for New Students, Macdonald Campus* (see www.mcgill.ca/macdonald/studentinfo), which are included with your acceptance package.



Note for the Faculty of Law: There is no Winter term admission to the Faculty of Law.

1.3.1.4 Late Registration

If you fail to register during the normal registration period, you can register within the period designated by the University for late registration with the payment of a late registration fee. For late registration fees, see *Late Registration and Course Change Charges* on the Student Accounts website at: www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/other.

Returning Students: You may register late via Minerva from Thursday, August 15 until and including Tuesday, September 17, 2013.

New, Readmitted, and Returning Students (Fall): You may register late via Minerva from Thursday, August 15 until Tuesday, September 17, 2013.

New and Readmitted Students (Winter): You may register late via Minerva from Tuesday, January 7 until Tuesday, January 21, 2014.

Special Late Registration: If you cannot register online during the late registration period, usually due to late admission, you may receive special permission to register in person. This information is included with your letter of acceptance.

1.3.2 Course Information and Regulations

Students are advised to also refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.3: Registration](#) and [section 1.5: Student Records](#).

The University reserves the right to make changes without prior notice to the information contained in this publication, including the revision or cancellation of particular courses or programs.

At the time this publication was finalized, new courses and modifications to some existing courses were under consideration. Students preparing to register are advised to consult Class Schedule on the web at www.mcgill.ca/students/courses for the most up-to-date information on courses to be offered in 2013–2014.

Not all courses listed are offered every year.

1.3.2.1 Course Information and Regulations: Class Schedule

[Class Schedule](#) for the upcoming Fall and Winter terms normally becomes available in March prior to the opening of advising. The Summer term schedule is normally published in early February. Class Schedule includes the days and times when courses are offered, class locations, names of instructors, and related information. You can also access the details of scheduled courses by clicking the course reference number (CRN) that appears with each course section shown in Class Schedule.

You should make a note of any preregistration requirements for a course, such as placement tests or departmental approval/permission required.

Class Schedule information is subject to change and is updated as courses are added, cancelled, rescheduled, or relocated. It is your responsibility to consult Class Schedule at the time of registration, and again before classes begin, to ensure that changes have not caused conflicts in your schedule.

Once you have selected some courses from the Class Schedule, try [Visual Schedule Builder](#) (VSB) to view your possible class schedules in an easy-to-read weekly schedule format. Please note that you cannot use Visual Schedule Builder to register but you can copy your choice of course reference numbers (CRNs) from VSB to have handy for registration in Minerva.

1.3.2.1.1 Course Numbering

Each McGill course is assigned a unique seven-character course “number.”

The first four characters (Subject Code) refer to the unit offering the course.

These codes were implemented in September 2002, replacing the three-number Teaching Unit Codes previously used. A complete list of Teaching Unit Codes and their Subject Code equivalents can be found at www.mcgill.ca/students/records/transcripts/key in the section *Grading and pre-2002 course numbering*.

The three numbers following the Subject Code refer to the course itself, with the first of these indicating the level of the course.

- Courses numbered at the 100, 200, 300, and 400 levels are intended for undergraduate students. In most programs, courses at the 300 and 400 levels are normally taken in the student’s last two years.
- Courses at the 500 level are intended for qualified senior undergraduate students but are also open to graduate students.
- Courses at the 600 and 700 levels are intended for graduate students only.

Two additional characters (D1, D2, N1, N2, J1, J2, J3) at the end of the seven-character course number identifies multi-term courses.

1.3.2.1.2 Multi-term Courses

Most courses at McGill are single term (Fall or Winter or Summer) courses with final grades issued and any credits earned recorded at the end of that term. Single term courses are identified by a seven-character course number.

A unit may, however, decide that the material to be presented cannot be divided into single term courses or it is preferable that the work to be done is carried out over two, or three, terms. Under such circumstances, courses are identified by a two-character extension of the course number.

In some cases, the same course may be offered in various ways: as a single term and/or in one or more multi-term versions. The course content and credit weight is equivalent in all modes, the only difference being the scheduling, and students cannot obtain credit for more than one version.

Courses with numbers ending in D1 and D2 are taught in two consecutive terms (most commonly Fall and Winter). Students must register for the same section of both the D1 and D2 components. When registering for a Fall term D1 course on Minerva, the student will automatically be registered for the Winter term D2 portion. No credit will be given unless both components (D1 and D2) are successfully completed in consecutive terms, e.g., Fall 2013 and Winter 2014.

Courses with numbers ending in N1 and N2 are taught in two non-consecutive terms (Winter and Fall). Students must register for the same section of both the N1 and N2 components. No credit will be given unless both components (N1 and N2) are successfully completed within a twelve (12) month period.

Courses with numbers ending in J1, J2 and J3 are taught over three consecutive terms. Students must register for the same section of all three components (J1, J2, J3). No credit will be given unless all three components are successfully completed.



Note for the Faculties of Arts and Science (including B.A. & Sc.): If you select a multi-term course, you are making a commitment to that course for its entirety. You **MUST** register in the same section in all terms of a multi-term course. Credit will be jeopardized if you deliberately register in different sections of a multi-term course.

In exceptional cases, when circumstances are beyond the student's control, the Faculty Student Affairs Office may grant permission to change sections midway through a multi-term course. You must make your request in writing citing your reason for the request. The request must also have the written support of the instructors of the sections involved and of the coordinator of the course (if applicable). Your request must be submitted to:

- Arts students – Associate Dean, Student Affairs
- Science and B.A. & Sc. students – Director of Advising Services, Science

Important Conditions for Multi-term Courses

1. Students must be registered for each component of the multi-term course. Students must ensure that they are registered in the same section in each term of the multi-term course.
2. Students must successfully complete each component in sequence as set out in the multi-term course. Credit is granted only at the end of the multi-term course; no credit is given for partial completion.

1.3.2.1.3 Course Terminology

Prerequisite: Course A is prerequisite to course B if a satisfactory pass in course A is required for admission to course B.

Corequisite: Course A is corequisite to course B if course A must be taken concurrently with (or may have been taken prior to) course B.

Credits: The credit weight of each course is indicated in parentheses beside the course title. For D1 and D2 courses, the credit weight is indicated after the course number. For further information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Records > section 1.5.2: Credit System*.

1.3.2.1.3.1 Course Nomenclature in Program Descriptions

Required Courses: Mandatory courses that must be completed to fulfil the requirements of a program (e.g., major, minor, etc. at the undergraduate level or specific courses at the graduate), unless the student receives exemptions. Students have no choices among required courses.

Complementary Courses: Courses selected from a restricted list, a particular subject area, or a discipline. In some programs, students must include a number of these to meet program requirements. **Complementary courses are not electives.**

Elective Courses: Courses, in some cases, taken outside of a student's program of study that do not count toward the fulfilment of the specific program requirements. Some restrictions may apply, but students have the most choice in selecting elective courses. Some faculties also permit students to take elective courses using the Satisfactory/Unsatisfactory (S/U) Option. Undergraduate students should consult their faculty regulations concerning electives; graduate students require the approval of their Program Director and Enrolment Services.

1.3.2.1.4 First-Year Seminars

First-Year Seminars (FYS) are limited-enrolment credit courses offered by the Faculties of Arts and Science to students in their first year of undergraduate study at McGill; i.e., newly admitted students in U0 or U1. Students in any faculty can enrol in an FYS, subject to the conditions and/or restrictions of the program in which they are registered. Students may take only one FYS.

FYS classes are limited to a maximum of 25 students and are designed to provide closer interaction with the professor, and better working relations with peers than are available in large introductory courses. The seminars endeavour to teach the latest academic developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis.

For a listing of First-Year Seminars, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.1: First-Year Seminars* and *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > section 13.6.5.5: Registration for First-Year Seminars*.

1.3.2.1.5 Faculty/School Specific Information

All students must comply with the regulations and requirements contained in their Faculty section of this publication.

1.3.2.1.5.1 Agricultural and Environmental Sciences

Students should note that there are no supplemental examinations for Agricultural and Environmental Sciences courses.

1.3.2.1.5.2 Arts

For Faculty of Arts specific program and course information, refer to:

www.mcgill.ca/oasis

Term(s) offered (Fall, Winter, Summer) may appear after the course credit weight to indicate when a course would normally be taught.

All courses have limited enrolment. You may register for and take for credit any course, unless otherwise indicated, in the sections of this publication applicable to the Faculties of Arts and of Science, subject to the course restrictions listed in this section.

Since the registration system is unable to verify whether or not Faculty regulations are respected, it is technically possible to register for courses that may not be credited toward your program. When your record is manually verified, however, any courses taken that break the Faculty or degree regulations will be flagged after the end of course change period as “not for credit.” As a result, your expected date of graduation may be delayed.

Some courses may require special permission. You should consult this publication and/or the Class Schedule at www.mcgill.ca/study well in advance of the course change period to determine if permission is required of the instructor, the department, or the Faculty for any course you want to take.

If you believe that you have valid reasons for taking a course that may not be credited toward your program, you must obtain the permission of the Associate Dean or Director.

1.3.2.1.5.3 Education

Some courses will be available in the evenings only, or will be offered during the Summer term.

Students should give particular notice to prerequisite and corequisite courses and registration for Field Experience courses.

1.3.2.1.5.4 Engineering

Most courses offered by the Faculty of Engineering, including the School of Architecture, are restricted to Engineering students. Non-Engineering students should obtain permission from a Faculty adviser in the Student Affairs Office, Engineering Student Centre (Frank Dawson Adams Building, Room 22), to register for Engineering courses.

A limited number of School of Architecture (ARCH) courses are open to students not registered in the School. Please refer to individual course descriptions.

The average division of time for a course is indicated in hours in the course listing after the course credit. For example, (3) (3-0-6) indicates a three-credit course consisting of three lecture hours per week, no other contact hours and six hours of personal study per week.

1.3.2.1.5.4.1 Extra Courses

Courses that you choose to take outside your program may be classified as *extra*, provided that you choose this option at the time of registration. The course will be designated as *extra* (“RX” at the time of registration, and “E” once the course is graded) on your transcript, and the grade earned in that course will not be included in your grade point average (GPA) calculation. This option will not be added to your record after the Course Change (add/drop) deadline. Courses that are taken to satisfy your engineering program requirements or minor requirements cannot be designated as *extra*.

1.3.2.1.5.4.2 Prerequisites and Corequisites

You must ensure that you have completed any course prerequisite(s) and/or corequisite(s) before course registration. If you have registered for a course and did not satisfy the prerequisite(s) and/or corequisite(s), the course may be dropped from your record automatically by Minerva.

If you received advanced credit(s)/exemption(s) or passed a placement exam for a course and are blocked from registration because of a prerequisite or corequisite error, you must go to your department/school in order to receive the appropriate permit override.

1.3.2.1.5.5 Management

Management students should give particular notice to:

- *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > [section 10.7: Grading and Credit](#)*
- *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > [section 10.8.1: BCom Program Credit Structure: General Management Program \(Concentrations\)](#)*
- *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > [section 10.8.2: BCom Program Credit Structure: Major or Honours Programs](#)*
- *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > [section 10.8.4: Management Core](#)*

1.3.2.1.5.6 Science

For Faculty of Science specific program and course information, refer to:

www.mcgill.ca/science/student

Term(s) offered (Fall, Winter, Summer) may appear after the course credit weight to indicate when a course would normally be taught.

All courses have limited enrolment. You may register for and take for credit any course, unless otherwise indicated, in the sections of this publication applicable to the Faculties of Arts and of Science, subject to the course restrictions listed in this section.

Since the registration system is unable to verify whether or not Faculty regulations are respected, it is technically possible to register for courses that may not be credited toward your program. When your record is manually verified, however, any courses taken that break the Faculty or degree regulations will be flagged after the end of the course change period as “not for credit.” As a result, your expected date of graduation may be delayed.

Some courses may require special permission. You should consult this publication and/or the Class Schedule at www.mcgill.ca/study well in advance of the course change period to determine if permission is required of the instructor, the department, or the Faculty for any course you want to take.

If you believe that you have valid reasons for taking a course that may not be credited toward your program, you must obtain the permission of the Associate Dean or Director.

1.3.3 Course Load

It is your responsibility to follow the faculty regulations listed below. When registering on Minerva (www.mcgill.ca/minerva), you must not exceed the maximum credits permitted by your faculty. For information on course load requirements for entrance scholarships' renewal and in-course awards, see [section 1.8.1: Entrance Awards for McGill Students](#).

1.3.3.1 Normal Course Load

The normal course load in most undergraduate faculties is 15 credits per term. If you carry fewer than 12 credits per term, you are considered to be a part-time student in that term.



Note for the Faculty of Agricultural and Environmental Sciences and the Schulich School of Music:

- The normal course load is 15 to 18 credits per term.



Note for the Faculties of Arts and Science (including B.A. & Sc.):

- Newly admitted students may take up to 17 credits per term.
- Continuing students in **satisfactory standing** may take up to 17 credits per term.
- Continuing students whose CGPA is above 3.50 may take more than 17 credits per term *only* with written permission from their faculty Associate Dean or Director.



Note for the Faculties of Education, Management, and Religious Studies:

- Newly admitted students may take up to 17 credits per term.
- Continuing students in **Satisfactory Standing** may take up to 17 credits per term.



Note for the Faculty of Engineering:

- The normal course load is 15 to 18 credits per term.
- If you want to register for more than 18 credits in a term, you must obtain permission from your departmental/school adviser.
- If you have deferred exams (grade of L on your unofficial transcript), you cannot register for more than 18 credits or write more than six exams per term, whichever is greater.
- You must register for enough credits to satisfy visa, financial aid, and/or scholarship requirements.
- The average number of hours per week of course activities is indicated in hours in the course listing after the course credit. For example, (3-1-5) indicates a course consisting of three lecture hours per week, one hour of tutorial or labs, and five hours of personal study per week.



Note for the Faculty of Law:

- The normal course load is 15 to 18 credits per term.

1.3.3.2 Course Load for Students in Probationary Standing

Students in Probationary Standing may take up to 12 credits per term, with the following exceptions:

- Agricultural and Environmental Sciences: 14 credits
- Arts: up to 14 credits
- Engineering: 13 credits maximum, including repeated courses
- Management: 12 credits maximum of new material
- Music: 14 credits
- Science: up to 14 credits

In some cases, a student in Probationary Standing may add a repeated course in which a grade of D or F was obtained.

1.3.3.3 Course Information and Regulations

For course information and regulations, see [section 1.3.2: Course Information and Regulations](#) in this publication.

1.3.4 Changing Programs within Selected Faculties

If you are registered in a program in one of the following faculties, you may add or change programs within your faculty using Minerva (www.mcgill.ca/minerva) under the *Student Records* Menu:

- Arts
- Science (see Note 2 below)
- Bachelor of Arts and Science degree
- Management (certain programs only)
- Education (certain programs only)
- Engineering (certain programs only; see below)

Certain restrictions apply. In all cases, you should consult the appropriate adviser for approval before making any changes and for faculty-specific regulations concerning program changes.

You are not permitted to use Minerva to change your degree (with the exception of Engineering, as below) or to select a program in another faculty or school.



Note for Arts, Science, or B.A. & Sc. freshman programs (97 or more credits): You cannot change your freshman program on Minerva, but may change options within your freshman program where options are available. Once you have been promoted from the freshman year you will be able to change departmental programs using Minerva as outlined in the note below.



Note for Arts, Science*, or B.A. & Sc. degree (96 or fewer credits): You may change major/minor concentrations, minor/minor concentrations or faculty programs using Minerva. You may also change into, or out of, an honours program. Some restrictions apply.

* Science students are limited to choosing majors or honours programs within the Science group to which they were admitted, but may continue to choose freely from all available minor programs. To change to a major or honours program in another Science group, students must submit an Intra-Faculty Transfer application; see www.mcgill.ca/students/transfer-readmission.



Note for Desautels Faculty of Management: You may add or change certain programs using Minerva. Please verify restrictions with the BCom Office (www.mcgill.ca/desautels/bcom/contact).



Note for Faculty of Education (B.Ed. Secondary program): You may add, drop, or change minors using Minerva.



Note for Faculty of Education (Kinesiology program): You may add, drop, or change minors using Minerva.



Note for Faculty of Engineering students who have confirmed their offer of admission to the B.Eng. Electrical/B.Eng. Computer/B.S.E. (Software Engineering) program: You must select your specific program using Minerva before the beginning of classes, in your first term. To make any further change, you must consult an adviser in the Department of Electrical and Computer Engineering (www.mcgill.ca/ece/supportstaff). If you are in another program in the Faculty of Engineering, you cannot make any program changes using Minerva.



Note for Faculty of Law: The addition of a major or minor must be approved by the Student Affairs Office; you will be blocked from making any program changes on Minerva.

1.3.5 Quebec Inter-University Transfer Agreement: McGill Students

The Quebec Inter-University Transfer (IUT) agreement permits concurrent registration at McGill and another Quebec institution.

If you are a regular McGill undergraduate or graduate degree, diploma, or certificate student, you may register, with your faculty's permission, at any Quebec university for three, or in some cases six, **credits** per term in addition to your registration at McGill. You may also obtain permission to complete a full term (i.e., 12 to 15 credits) at another Quebec university. These courses, subject to faculty regulations, will be recognized by McGill for the degree that you are registered for, up to the limit imposed by the residency requirements of the program. Normally, you must complete a minimum residency requirement of 60 credits at McGill in order to qualify for a McGill degree (you should check with your faculty). This privilege will be granted if there are valid academic reasons.

If you want to take advantage of this agreement, consult your Student Affairs Office for details. Note that this agreement is subject to the following conditions:

- The Quebec universities concerned may, at their discretion, refuse the registration of a student for any of their courses.
- You must complete your faculty and program requirements.
- You are responsible for ensuring that the McGill Class Schedule permits you to take these courses without conflict.
- The Quebec universities concerned are not responsible for special arrangements in cases of examination or class schedule conflicts.
- Grades earned at the host university will not be included in your McGill grade point averages (GPA) or show on your McGill transcripts.
- If you are attending McGill as an Exchange student from outside Quebec, you are not eligible to take courses at another Quebec institution through the IUT agreement.
- Any grades received late from host universities may delay your graduation.

If you are a scholarship holder, you should consult with your Student Affairs Office and the scholarships coordinator concerning eligibility for continuation or renewal of your award(s).

You must initiate an online Quebec Inter-University Transfer (IUT) application to request the required authorizations at www.mcgill.ca/students/transferecredit/current/iut. You may find additional information posted on your faculty website.



Note: Once the Quebec Inter-University Transfer (IUT) application is approved by both the home and host universities, you must register in the course that was approved. The method of registration of the host university will vary (e.g., web, in-person, phone, etc.). **You must allow sufficient time to complete and submit your electronic application, because you are responsible for adhering to all the host university's registration deadlines.** If you decide later to drop or withdraw from the approved course(s), you will need to drop or withdraw from the course using the host university's registration method AND submit this change on the online Quebec Inter-University Transfer (IUT) application.

The host institution will automatically submit your grades to McGill for any completed courses.



Note for the Faculties of Arts and Science (including B.A. & Sc.): If you participate in any type of study away or exchange (including Quebec Inter-University Transfer) during your final (U3) term—even if you are taking only one course outside of McGill—you will not be able to graduate by the end of this final term and must change your graduation to the following term.

1.3.6 Quebec Inter-University Transfer Agreement: Visiting IUT Students

The Quebec Inter-University Transfer (IUT) agreement permits concurrent registration at McGill and another Quebec institution.

If you are a student at another Quebec university and you want to take courses at McGill using the Quebec Inter-University Transfer (IUT) agreement, you must initiate an online application to request the required authorizations at www.mcgill.ca/students/transferecredit/current/iut. You should also refer to your home university website for regulations on the number of credits allowed, as well as the policies for transferring the credits.



Note: Once the Quebec Inter-University Transfer (IUT) application is approved by both the home and host universities, you remain responsible for registering in the course that was approved. At McGill, you have to register on Minerva (www.mcgill.ca/minerva). You will be informed via email of the necessary registration steps once your application has been approved. **You must allow sufficient time to complete and submit your electronic application, because you are responsible for adhering to all McGill's registration deadlines.** If you decide later to drop or withdraw from the approved course(s), you will need to drop or withdraw from the course on Minerva AND submit this change on the online Quebec Inter-University Transfer (IUT) application.



Note for Engineering: Courses administered by the Faculty of Engineering that are offered in the Summer term are open only to McGill students.

McGill will automatically submit your grades for any completed courses to your home university.

1.3.7 Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option

The principle of the Satisfactory/Unsatisfactory (S/U) option is to encourage you to take courses outside the area of your specialization with the view of enabling you to acquire knowledge and skills in a variety of fields.

Where permitted by faculty and program regulations, you may take one elective course per term to be graded under the Satisfactory/Unsatisfactory (S/U) option, to a maximum of 10% of your credits taken at McGill to fulfil the degree requirements.

If you decide to have an elective course graded as Satisfactory/Unsatisfactory (S/U), you must do so before the Course Change deadline on Minerva (www.mcgill.ca/minerva) as part of the *Student Menu > Registration Menu > Quick Add or Drop Course Sections Menu*. **You cannot make any changes after the Course Change deadline even if you selected the option by mistake.** If the course is a multi-term course, you must select the S/U option by the Course Change deadline of the first part of the course.

The instructor will report grades in the normal fashion. Grades of A through C are converted to "Satisfactory" (S), and grades of D, F, and J are converted to "Unsatisfactory" (U). The courses taken under the S/U option will be excluded from the grade point average (GPA) calculations, but they will be included in the attempted credits total. Credits for courses with a final grade of S will also be included in the number of credits earned.



Note: To be considered for in-course awards, including Dean's Honour List designations, and/or the renewal of entrance scholarships, you must complete at least 27 graded credits in the regular academic session, not including courses completed under the S/U option.



Note: The S/U option is not available via Minerva to Visiting, Exchange, or Quebec Inter-University Transfer Agreement (IUT) students. These students must first contact their home university to ensure that a course taken under the S/U option is acceptable to their home university and that the credits are transferable. After receiving approval from their home university and before McGill's Course Change deadline, they must then consult their McGill faculty Student Affairs Office for approval. **Students in the faculties of Arts or Science:** you will need to go to *Service Point* (3415 McTavish Street) to make this request. However, it is important that you also see a faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.



Note: Special Students are not eligible to select the S/U option.

For further information, contact your departmental adviser or student affairs office, as appropriate.



Note for Agricultural & Environmental Sciences, Arts, B.A. & Sc. and Science: Freshman year (U0) students are not eligible to select the S/U option.

**Note for Engineering:**

- You will only be permitted to take a course under the Satisfactory/Unsatisfactory (S/U) option if you are in Satisfactory Standing.
- B.Eng. and B.S.E. students may use the S/U option for Complementary Studies courses (i.e., Group A *Impact of Technology on Society* and Group B *Humanities and Social Sciences, Management Studies and Law*), Basic Science Complementary Courses (for Computer Engineering and Software Engineering students from CEGEP), and Elective Courses (for Mechanical Engineering students from CEGEP). You cannot use the S/U option for courses in any other category of the Engineering programs. If you choose not to use the S/U option, a grade of D is acceptable as a pass for these Complementary Studies courses.
- B.Sc.(Arch.) students may use the S/U option for elective courses taken outside the School of Architecture. You cannot use the S/U option for courses in any other category of the Architecture program. If you choose not to use the S/U option, a grade of D is acceptable as a pass for these elective courses.
- You cannot use the S/U option for courses that are taken to satisfy a minor.



Note for Law: The S/U option is only applicable to non-Law electives.



Note for Management: The S/U option is not available on Minerva for Management students. Requests for the S/U option can only be made during the official add/drop period. Please contact the BCom Office (www.mcgill.ca/desautels/programs/bcom/contact) for details on the conditions that apply.



Note for Music: Music students may use the S/U option for elective courses taken outside the Schulich School of Music (non-music courses). Please note that the S/U option is not permitted for courses that are taken to satisfy a minor.

1.3.8 Course Change Period

You may make changes to your course registrations (add or drop courses), subject to the requirements and restrictions of your program and individual courses from the opening date of registration until the end of the Course Change period. The Course Change deadline coincides with the deadline for late registration. See www.mcgill.ca/importantdates.

If you drop all Fall courses **before** the end of August (or drop all Winter courses **before** the end of December), you will not be registered in that term. If you are a newly admitted student, you may be able to defer your admission (see [section 1.3.13: Deferred Admission](#)), or you may have to apply for a later term. If you are a returning student and want to register in a later term, you must follow the procedures for readmission (see [section 1.3.16: Readmission](#)).

If you drop all Fall courses **after** the end of August (or drop all Winter courses **after** the end of December) you are considered University Withdrawn and your transcript will display a notation in that term. Whether you are a newly admitted or returning student, you must follow the procedures for readmission. For more information see [section 1.3.16: Readmission](#).

If you are registered in the Fall term, you may add and drop Winter term courses throughout the Fall term until the Winter term deadline for course change/late registration.

After the Course Change deadline, you may add courses only with written permission of the instructor, and the Associate Dean or Director of your faculty. A fee will be charged for each course you add.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests made after the Course Change deadline must be made at the *Service Point* (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.3.9 Regulations Concerning Course Withdrawal

After the Course Change deadline in the Fall and Winter terms, there is a period of a few days during which you may withdraw, with a grade of W, and receive a full refund of course fees.

After the Withdrawal (with refund) deadline, there is a period during which withdrawal from a course will also result in a grade of W but no course fees will be refunded.

1.3.9.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 24, 2013

Deadlines for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, October 15, 2013
- Multi-term courses that begin in Fall term: Tuesday, January 21, 2014

1.3.9.2 Courses that Begin in the Winter Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, January 28, 2014

Deadline for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, February 18, 2014
- Multi-term courses that begin in Winter term: Thursday, May 15, 2014*

* Note that if you are in multi-term courses with course numbers ending in N1 and N2 (course begins in the Winter term, skips the Summer term, and is completed in the subsequent Fall term) you may withdraw after May 15 and until the end of the Fall term Course Change period by contacting your Faculty Student Affairs Office.

After the withdrawal (without refund) deadline but before the end of term, and only under exceptional circumstances, you may be granted permission to withdraw from a course. Permission will not be granted merely because you are doing unsatisfactory work. A grade of W or WF, as appropriate, will appear on your transcript but will not be calculated in your GPA. For further information, consult your Faculty Student Affairs Office.



Note:

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your Faculty Student Affairs Office. Additional restrictions for Music courses are indicated in *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music*.
2. It is solely your responsibility to initiate a course withdrawal on Minerva. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on Minerva is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the Course Change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with [section 1.4.9: Fees and Withdrawal from the University](#).



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at the *Service Point* (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.3.10 Regulations Concerning University Withdrawal

If you are considering withdrawing from the University, you are strongly encouraged to consult with your adviser and your Student Affairs Office (www.mcgill.ca/students/advising/advisordirectory) before making a final decision.

1.3.10.1 Student's Responsibility

It is solely your responsibility to initiate University withdrawal by submitting a form or writing to your Student Affairs Office. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you dropped or withdrew from all courses is entered on Minerva and is the official date of withdrawal, even if you had stopped attending lectures earlier.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at *Service Point* (3415 McTavish). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.3.10.2 Regulations Concerning University Withdrawal: Deadlines for University Withdrawal

If you decide not to attend the term(s) you are registered in, you must officially withdraw from the University within the deadlines indicated. See Withdrawal (W) deadline dates at www.mcgill.ca/importantdates. If you drop or withdraw from your last Fall or Winter course by the end of the add/drop period of that term, you are withdrawn from the University. To return to your studies, you must follow the procedures for readmission. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.16: Readmission*.

To withdraw from the University by the deadlines indicated below, you must drop or withdraw from all courses on Minerva (www.mcgill.ca/minerva).

1.3.10.2.1 Fall Term:

Deadline for University withdrawal with refund (minus \$200 for returning and the registration deposit for new students): Tuesday, September 24, 2013

Deadline for University withdrawal without refund: Tuesday, October 15, 2013

1.3.10.2.2 Winter Term:

Deadline for University withdrawal with refund (minus \$200 for returning and the registration deposit for new students): Tuesday, January 28, 2014

Deadline for University withdrawal without refund: Tuesday, February 18, 2014

If you are blocked from dropping or withdrawing from your last course on Minerva, you are required to contact your Student Affairs Office, which will supply any forms necessary to complete the University withdrawal as long as you have not missed **the deadline for University withdrawal**.



Note for the Faculty of Agricultural and Environmental Sciences: If you wish to withdraw after the deadlines indicated above, please contact the Faculty Adviser in the Student Affairs Office for further information.



Note for the Faculties of Arts and Science (including B.A. & Sc.): If you want to withdraw after the deadlines indicated above, under exceptional circumstances you may be granted permission for University withdrawal. Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.



Note for the Faculties of Education, Management, and Music: If you want to withdraw after the deadlines indicated above, under exceptional circumstances you may be granted permission for University withdrawal. You should contact your Student Affairs Office (www.mcgill.ca/students/advising/advisordirectory) for further information.



Note for the Faculty of Law: In addition to the above procedures, it is important that you contact the Student Affairs Office to discuss your options and the effects that your request may have on your studies.

1.3.10.3 Regulations Concerning University Withdrawal: Consequences of University Withdrawal

Any applicable fee refunds for the term of withdrawal will be according to [section 1.4.9: Fees and Withdrawal from the University](#).

Once you withdraw, you must return your ID card to the University as stated in [section 1.2.7: Identification \(ID\) Cards](#).

If you withdraw from the University in the Fall term, you are considered to be withdrawn from the entire academic year; i.e., Fall and Winter terms. If you plan on returning for the Winter term, you must follow the procedures for readmission.



Note: If you withdraw from the University and want to re-register in a later term, you must follow the procedures for readmission, except if you are in the following faculties (in which case you must contact your Student Affairs Office): Music, and Agricultural and Environmental Sciences. See *University Regulations and Resources* > Undergraduate > Registration > [section 1.3.16: Readmission](#) for more information.



Note for the Faculty of Law: You must reapply for admission via the McGill online application process. For more information, see www.mcgill.ca/law-admissions/undergraduates/admissions/how.

1.3.11 Undergraduate Leave of Absence Policy

A leave of absence may be granted to undergraduate students for reasons related to:

- maternity or parenting
- personal or family health
- professional development
- required military service

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. A leave of absence request should be submitted to your faculty Advising or Student Affairs Office along with appropriate documentation. Refer to specific instructions on your faculty website.

Students who are granted such a leave will have "leave of absence" recorded on their transcript.

No tuition fees will be charged for the duration of the authorized leave. During a leave of absence, you maintain an active student ID card and have access to McGill mail and use of the libraries. You are not permitted to register for courses or to participate in student internships or undergraduate research. You may not normally attend another academic institution; exceptions may be requested for professional development. Faculties may request documentation of a student's readiness to resume studies; they will apply "withdrawn" status after one year of approved leave of absence if the student has not returned to the University.

Notes:

- Personal objectives, such as travel or time off, and financial matters are not grounds for a leave of absence.
- Normally, a student shall be in Satisfactory Standing when requesting a leave of absence; exceptions may apply and will be determined by the faculty and, if applicable, the professional program.
- Since students on a leave of absence pay no fees, the Student Services are not available; however, an opt-in option is available at the usual rate.
- Students who are eligible for scholarship renewal will not have scholarship monies transferred to their account while they are on leave of absence but will maintain eligibility for renewal upon registration in subsequent terms.

- Terms and conditions vary among loan and bursary providers; student consultation with an adviser in Scholarships and Student Aid is recommended.
- Professional programs may impose constraints to application of the undergraduate leave of absence policy due to accreditation requirements or placement limitations.
- International students are advised to contact International Student Services (ISS) regarding individual circumstances.



Note: When on a leave of absence, if you wish to be covered by the undergraduate supplemental health insurance and/or international health insurance, you must contact your respective campus-wide student association (e.g., Students' Society of McGill University, Macdonald Campus Students' Society) and International Student Services to make arrangements. Note that there will be additional student society fees to be paid in order to be considered a member eligible for the insurance plans. For information about the student societies' supplemental health and dental coverage, click [here](#). For information about international health insurance, click [here](#).



Note: Once a leave of absence is granted, you must consult the [Student Aid Office](#) in order to assess the impact of the leave on student aid (e.g., government loans and bursaries, etc.).

If you need to take a leave of absence because of pregnancy or because you need to care for a dependant, please consult [section 1.3.12: Guidelines for the Academic Accommodation of Pregnant Students and Students Caring for Dependants](#).

1.3.12 Guidelines for the Academic Accommodation of Pregnant Students and Students Caring for Dependants

McGill acknowledges the particular challenges facing you as a pregnant student and as a student caring for a dependant.

McGill supports you in your desire to further your education while meeting your family obligations.

Wishing to provide an environment in which you may be able to continue in your program of study and fulfil your university commitments when faced with exceptional circumstances related to particular family commitments, these guidelines aim to set out how, and in what exceptional circumstances, you may request academic accommodation.

You can consult the policy at www.mcgill.ca/secretariat/policies/students.

1.3.13 Deferred Admission

To defer your offer of admission to McGill you must make an official request no later than **August 31** for the Fall term and **December 31** for the Winter term, addressed to:

Deferral Coordinator
Enrolment Services
Service Point
3415 McTavish Street
Montreal, QC H3A 0C8

Fax: 514-398-4193
Email: deferral@mcgill.ca

Please note that several conditions apply for deferral. These conditions and deadlines will be communicated to you once the University receives your official request.

If you have accepted your offer of admission and registered for courses and now want to defer your admission, you must withdraw from McGill by dropping those courses via Minerva (www.mcgill.ca/minerva) **by the above deadlines** and before submitting a deferral request. If the University grants your request for deferral, your registration deposit will be transferred to the deferred term.

If you do not request a deferral by the above deadlines, you will have to reapply for the next available admission term. If you are a registered student and you withdraw after the deadline, you must request readmission through your faculty. For more details, see [section 1.3.16: Readmission](#).



Note for Music: Applicants to the Schulich School of Music are not eligible to apply for deferred admission.



Note for Law: The Faculty of Law does not normally accept requests for deferred entry. You will be expected to start your course on the date and term you applied for and as indicated on your admission offer letter. If you still wish to seek an admission deferral, you must first accept the offer of admission and pay the \$300 deposit. Once the offer of admission has been accepted, you must submit, in writing, a request for the deferral. The request should be addressed to the Assistant Dean (Admissions and Recruitment) and should set out the reason(s) for the request. You are encouraged to submit your request as early as possible in consideration of other candidates.

1.3.14 Summer Term/Summer Studies

McGill Summer Studies offers over 300 credit courses in various disciplines. Courses begin in either May, June, or July and are usually one-month intensive. These courses may be accepted for transfer credit by other universities. For more details, consult *Programs, Courses and University Regulations > Faculties & Schools > Summer Studies* at www.mcgill.ca/study or contact the Summer Studies Office at 514-398-5212.

If you take a McGill summer course to complete your graduation requirements, you will receive your degree at the Fall Convocation (normally held in November).

It is your responsibility to follow the University and faculty regulations. When registering, you must not exceed the maximum credits permitted by your faculty.

You cannot register for more than 12 credits (Management or Music students, 18 credits) during the summer, at McGill or at other universities, except by special permission of your Associate Dean or Director.

Please note that because the schedule of the courses is very intensive, two courses in one term is a very heavy load. To register for more than one course (or more than two courses in Arts, Education, Engineering, Management, and Science), McGill students must obtain written permission from their faculty, Visiting Students from both their home university and the faculty in which they are registered, and Special Students from the faculty in which they are registered.

Quebec Inter-University Transfer (IUT) students may take, in one summer term, a maximum of one course regardless of credit weight. Permission to register for more than one course per term must be obtained from the McGill faculty in which the student is registering by using the CREPUQ electronic IUT site at www.crepuq.qc.ca (see [section 1.3.6: Quebec Inter-University Transfer Agreement: Visiting IUT Students](#)).

1.3.15 Interfaculty Transfer

If you are a McGill student, have not graduated and want to transfer into another undergraduate faculty, you may apply using the *Minerva Faculty Transfer/Readmission Menu* (www.mcgill.ca/minerva), unless otherwise indicated in the table below.

You must also refer to your faculty website for faculty-specific rules and to determine what supporting documents must be submitted for your application. To access the faculty websites, and for more information on faculty transfers, please see www.mcgill.ca/student-records/inter-faculty-transfers.

Faculty/School	Notes	Fall Term Application Deadline	Winter Term Application Deadline
Agricultural and Environmental Sciences, Dietetics and Human Nutrition		June 1	December 1
Architecture	Contact the Student Affairs Adviser at 514-398-6702 or email mary.lanni@mcgill.ca .	May 1	
Arts	There are no Winter term transfers into Arts.	June 1 (May 1 Social Work)	
Education	There are no Winter term transfers into Education.	June 1	
Engineering		May 1	November 1
Law	There are no transfers into Law. Contact the Faculty of Law Admissions Office for more information at 514-398-6602 or undergradadmissions.law@mcgill.ca .	See Admission application deadlines.	
Management	There are no Winter term transfers into Management.	June 1	
Music	There are no Winter term transfers into Music.	January 15	
Nursing		August 15	December 15
Physical and Occupational Therapy	There are no Winter term transfers into Physical and Occupational Therapy.	June 1	
Religious Studies		June 1	November 1
Science, B.A. & Sc.		May 15	November 1

1.3.16 Readmission

To return to McGill after an absence from a Fall and/or Winter term of an academic year, you must submit an application for readmission using *Minerva's Faculty Transfer/Readmission Menu* (www.mcgill.ca/minerva). In your application, state the reasons for your absence from the University and give a summary of your activities during that period.

If you withdrew because of illness, you must provide your Faculty Student Affairs Office with a medical note to support your application for readmission, stating that you are ready to resume studies.

You must be aware of McGill's time limits for the completion of degrees.

To return to a different faculty after an absence, apply for a faculty transfer using Minerva's *Faculty Transfer/Readmission Menu*. For more details on the faculty transfer or readmission process, see www.mcgill.ca/students/transfer-readmission.

Faculty/School	Fall Term Application Deadline	Winter Term Application Deadline	Summer Term Application Deadline
Agricultural and Environmental Sciences, Dietetics and Human Nutrition	August 15	November 15	
Architecture	May 1	November 1	
Arts	July 15	November 15	June 10
Education	July 1	Not open for Winter term	
Engineering	May 1	November 1	
Management	August 15	November 15	
Music (re-audition required)	January 15	November 15	
Music (no audition required)	June 1	November 15	
Nursing	June 15	December 1	
Religious Studies	June 1	November 1	
Science, B.A. & Sc.	July 1	November 15	June 10



Note for Music students: If you need more information about the re-audition regulations, contact the Music Student Affairs Office at studentaffairs.music@mcgill.ca.



Note for Law students: Candidates who were required to withdraw from the Faculty of Law may be authorized by the Faculty Admissions Committee to continue their studies if exceptional reasons for the withdrawal exist.

1.3.17 Auditing of Courses

McGill does not permit auditing of courses.

1.4 Fees

The information in this publication was updated in early February 2013. **The University reserves the right to make changes without notice in the published scale of fees.**

Further information regarding fees can be found on the Student Accounts website: www.mcgill.ca/student-accounts/tuition-fees/tuition-and-fees.

For information on financial support, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.8: Scholarships and Student Aid*.

1.4.1 Access to Fee Information

You can view your *Account Summary by Term* on Minerva. The Fall 2013 term fees will be accessible as of August 1.

1.4.2 Tuition Fees

Tuition rates are subject to change each academic year. Please access *Tuition and fees* at www.mcgill.ca/student-accounts/tuition-fees. The annual rates of tuition and fees are updated as soon as they are known.

1.4.2.1 Quebec Students and Non-Quebec (Canadian or Permanent Resident) Students

In accordance with provincial government requirements, students must provide proof that they qualify for assessment of fees at the Quebec or non-Quebec Canadian rates; see www.mcgill.ca/legaldocuments for details. In certain cases, non-Quebec Canadian students pay the same rate of tuition as Quebec students—for further information about these exceptions, see the Student Accounts website at www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions.



Note: Students who are required to submit appropriate documentation and do not do so by the stipulated deadlines (December 1st – Fall; April 1st – Winter; August 1st – Summer) are billed at the non-Quebec Canadian or the international rate, depending on the documentation submitted. Should your tuition status be changed during the evaluation period, any late payment and/or interest charges accumulated on the difference between the Quebec and Canadian tuition rates will also be waived.

1.4.2.2 International Students

Exemption from International Tuition Fees may be claimed by students in certain categories. Such students, if eligible, are then assessed at the Quebec student rate (certain categories may be assessed at the Canadian tuition rate). These categories and the required documentation for each of them, may be viewed at www.mcgill.ca/legaldocuments. Further information regarding these reductions of International Tuition Fees by the Quebec government is available on the [Student Accounts](http://www.mcgill.ca/studentaccounts) website under *Tuition and Fees > General Information*.

For more information concerning Fee Exemptions, contact Service Point at www.mcgill.ca/students/records/contact.

1.4.2.3 Tuition Assistance for McGill Staff

McGill staff may be entitled to a tuition waiver equivalent to 100% of the portion of eligible tuition fees. For complete details, refer to the policies and procedures found at www.mcgill.ca/hr/bp/benefits/forms. Here you can complete an online request form as you register. Should you not successfully complete the courses as detailed in the policy, the exemption will be cancelled and you will be required to pay these fees according to regular payment deadlines.

1.4.2.4 Staff Dependent Waivers

Students who are dependents of staff members or pensioners may qualify for a fee reduction. You may download the application form from www.mcgill.ca/hr/bp/benefits/forms and forward the completed form either by email to student.accounts@mcgill.ca with “Staff Dependent” as the subject line, or fax to Student Accounts at 514-398-2656.

The fee reduction will be credited to your McGill fee account once eligibility has been confirmed and all appropriate signatures have been obtained. This fee reduction will be reflected in a T4A slip issued to the student in February by the University.

For more information, refer to the MUNACA Collective Agreement, or the Staff Dependent Policy at www.mcgill.ca/adminhandbook/personnel/stafftuition.

1.4.3 Compulsory Fees

Rates are updated and available on the Student Accounts website, www.mcgill.ca/student-accounts/tuition-fees, as soon as they become available.

1.4.3.1 Student Services Fees

Student Services fees are governed by the Senate Committee on the Coordination of Student Services, a parity committee composed equally of students and University staff. Through the Office of the Executive Director of Services for Students, these services are available on the Downtown and Macdonald campuses to help students achieve greater academic, physical, and social well-being.

These fees are complemented by revenue from the Quebec government, the University, and the generosity of donors. They support: Student Health (including Dental), Mental Health, Counselling and Tutorial, Chaplaincy, Career Planning (CaPS), Student Aid and International Student Services, the Office for Students with Disabilities, First-Year Office (including the Francophone Assistant), Off-Campus Housing, and the First Peoples' House.

1.4.3.2 Athletics and Recreation Fee

The Athletics and Recreation fee supports programs offered on the Downtown and Macdonald campuses. The fee provides access to most athletics facilities; however, registration to fitness and recreation courses, intramural sports, pay-as-you-go programs, and/or the Fitness Centre carries a supplemental charge. Please consult the Athletics and Recreation website at www.mcgillathletics.ca for further information.

1.4.3.3 Student Society Fees

Student Society fees are collected on behalf of student organizations and are compulsory. These fees must be approved by the student body through fee referenda according to the constitutional rules of the association or society.

Students may vote on changes to Student Society fees during either the Spring or Fall referendum periods.

For Canadian students, the Student Society fees include health and dental insurance. For international students, the Student Society fees include a dental insurance plan. International students are required to participate in the University's compulsory International Health Insurance (IHI) plan. For more information, please visit International Health Insurance at www.mcgill.ca/internationalstudents/health.

Rates for the current year may be found at www.mcgill.ca/student-accounts.

1.4.4 Administrative Charges

The University assesses a number of administrative charges to students, which include:

Registration Charge – All students in courses and programs are assessed a registration charge.

Information Technology Charge – The purpose of the information technology charge is to enhance certain technology services provided to students as well as to provide training and support to students in the use of new technology.

Transcripts and Diploma Charge – The University assesses a transcripts and diploma charge to all students. This entitles students to order transcripts free of charge and covers the costs of producing diplomas and some of the costs associated with the Convocation ceremony. Students who attend the Convocation may be responsible for some additional costs.

Copyright Fee – All students in courses and programs are assessed the copyright fee, which covers the cost of the annual fee that all Quebec universities are required to pay to Copibec (a consortium that protects the interests of authors and editors) for the right to photocopy materials protected by copyright.

General Administrative Charge – As per the Quebec government's regulation on administrative fee increases, the University is permitted to increase this charge by no more than \$15.00 per Fall/Winter term and \$7.50 per Summer term. In accordance with this regulation, the charge in Summer 2013 will be \$30.00 and in Fall/Winter a maximum of \$60.00. A portion of this amount (up to \$3.00 per Fall/Winter term) is directed to Athletics (except in the School of Continuing Studies). As a result, students may see a decrease in their General Administrative Charge to take into account their additional contribution to Athletics. The other administrative charges (Registration Charge, Information Technology Charge, Transcripts and Diploma Charge, and the Copyright Fee) will therefore not be subject to increases.

For further information about administrative charges, see

www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/society-services-and-administrative-fees.

1.4.5 Other Fees

Other Fees (rates as of 2012–2013)	
International Student Health and Accident Plan (compulsory)	
Single	\$813
Dependent (one student with one dependent)	\$2,334
Family (one student with two or more dependents)	\$4,437
Application for Admission	
Undergraduate application fees*	
All undergraduate programs, excluding Medicine (fee charged to applicants applying to terms after Fall 2011)	\$100
Medicine	\$140
Other application fees	
School of Continuing Studies	\$65
Special Intensive Language Programs (SCS)	\$80
Graduate Studies**	\$100
* Note that for registered students, the Undergraduate Application Fee is partially refunded at the end of the first term as follows:	
CEGEP applicants	\$40
all non-CEGEP applicants	\$20
** All students making application to Graduate and Postdoctoral Studies are required to pay this fee, including those already registered at McGill. If a department or an applicant defers an admission within the following year, the application fee need not be paid again.	
Undergraduate Admission appeals charge	\$100

Other Fees (rates as of 2012–2013)

Late Registration

After the regular registration deadline (August 14th):

All eligible returning and new students, except Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.	\$125

Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.	\$62.50

Late Course Change Fee

\$50

Registration Cancellation Fee upon withdrawal (or if newly admitted students, the deposit)

\$200

Rereading Examination Paper (refundable if the letter grade is increased)

\$35

Supplemental Examinations, each written paper

\$35

Duplicate ID Card

\$25

Late Payment Fee (charged at the end of October for the Fall term, or at the end of February for the Winter term):

• Balances between \$100.01 and \$300	\$25
• Balances between \$300.01 and \$1,000	\$50
• Balances greater than \$1,000	\$75

Interest on outstanding balances (rate determined in February, to be applicable on June 1, is 1.24% monthly or 14.88% annually)

Returned cheque or Pre-Authorized Debit payment***

\$35

*** Please note that the \$35 fee for returned cheques and pre-authorized debit payments is in addition to the value of the amount debited for the returned item in question. For transactions in Canadian dollars, the amount debited is the same as the amount paid. For transactions in other currencies, including pre-authorized debit payments in US dollars, accounts will be debited at the exchange rate charged by the bank to the University. This sometimes represents a significant difference from the amount originally paid, depending on the rate of exchange on the date of the return.

Cheque Refund Charge:

on balances less than \$100	\$5

on balances \$100 and over	\$10

Schulich School of Music fees:

Audition Fee	\$60

Late Music Placement Examination Fee	\$50

Late application fee for Music Performance examination (requires the permission of the Chair of the Department of Performance)	\$50

Other Fees (rates as of 2012–2013)

Supplemental Practical Examination in Music	\$150
Music Private Lessons Fee (MUIN, MUPG subject code courses)	\$500
Music Practical Instruction: part-time or Special Student status, <u>or</u> 2 nd instrument or voice, <u>or</u> in excess of quota; 1 hr/wk lessons	\$785
Music Practical Instruction: part-time or Special Student status, <u>or</u> in excess of quota; 1.5 hr/wk lessons (Artist Diploma)	\$1,175
Music Practical Instruction: Special Student status; Opera Studio; 1 hr/wk lessons	\$680
Music Practical Instruction: part-time or Special status, <u>or</u> in excess of quota; Voice Coaching; 1 hr/wk lessons	\$550
Reinstatement penalty	\$150 (see <i>Cancelling Registration for Non-Payment</i> in section 1.4.10: Other Policies Related to Fees: Overdue Accounts)

1.4.6 Billings and Due Dates: Confirmation of Acceptance Deposit

When you are admitted to the University, you are required to confirm your acceptance of the offer of admission on Minerva under the *Applicant Menu* at www.mcgill.ca/minerva and you must pay the required deposit (may vary by program) by credit card (AMEX, Visa or MasterCard) at that time.

1.4.7 Billings and Due Dates: Invoicing of Fees

Fees are assessed on a term-by-term basis.

Electronic billing is the official means of delivering fee statements to all McGill students. Your e-bill includes all charges to your account, including tuition, fees, health insurance and miscellaneous charges. The University generally produces e-bills at the beginning of the month and sends an email notification to your official McGill email address stating that your e-bill is available for viewing on Minerva (www.mcgill.ca/minerva). Charges or payments that occur after the statement date appear on the next month's statement, but you can view them immediately on the *Account Summary by Term* under the *Student Accounts Menu* on Minerva (this is the online dynamic account balance view).

Failure to check email on a regular basis in no way warrants the cancellation of interest charges and/or late payment fees. Refer to the Student Accounts website at www.mcgill.ca/student-accounts for information on payment due dates.

Term	Payment Due Date
Fall Term	
Returning and new students	August 30, 2013
Winter Term	
Returning and new students	January 6, 2014

Late Payment Fees: If you have an outstanding balance greater than \$100 on your account on October 31 (February 28 for the Winter term), you are charged a late payment fee as per the fee schedule found at [section 1.4.5: Other Fees](#).

1.4.8 Billings and Due Dates: Guest Access on Minerva

You may choose to give access privileges to a guest on Minerva. These privileges include viewing e-bills/account summaries, tax receipts and e-payment.

The www.mcgill.ca/student-accounts/parents-and-sponsors/guest-access web page describes how to set up this access. You must provide certain information about the individual to whom you wish to grant access to your fee-related information. The guest will be contacted by email and provided with a link to use within a designated time period.

You can revoke guest access privileges at any time.

Note that Service Point staff may respond to questions from your authorized guest regarding the information to which they have been given access.

If you do not want to give a guest access privileges to Minerva, you can enter an “Alternate Student Billing” email address on Minerva to which Student Accounts will send a copy of the monthly e-bill notification.

You should not share your PIN (personal identification number) with anyone, including a guest on Minerva. *Guest Access* allows your guest to view your account information without knowing your PIN.

1.4.9 Fees and Withdrawal from the University

If you decide not to attend the term(s) in which you are registered, you must officially withdraw from the University in accordance with [section 1.3.10: Regulations Concerning University Withdrawal](#). **Otherwise, you are liable for all applicable tuition and other fees.**

If you use Minerva to drop your last course between September 1 (January 1 for the Winter term) and the end of the withdrawal period with full refund, you will be deemed withdrawn from the University. You are automatically charged a registration cancellation fee of \$200 (or your registration deposit fee, whichever is higher) to cover administrative costs of registration.

If you stop attending classes without dropping your courses, you are liable for all applicable tuition and other fees. See [section 1.3.10: Regulations Concerning University Withdrawal](#).

If you are considering withdrawal from the University, please review the information found on the following Student Accounts web page for further details of the financial repercussions of withdrawal: www.mcgill.ca/student-accounts/your-account/withdrawals.

1.4.9.1 Fee Refund Deadlines

The deadline dates for course refunds are independent of the deadline dates given for withdrawal from courses.

1.4.9.1.1 Fall Term – up to and including September 24:

Returning students – 100%* refund (less registration cancellation fee of \$200 in the case of complete withdrawal).

New students – 100%* refund (less registration deposit or \$200, whichever is higher).

1.4.9.1.2 Fall Term – after September 24:

No refund.

1.4.9.1.3 Winter Term – up to and including January 28:

Returning students – 100%* refund (less registration cancellation fee of \$200 in the case of complete withdrawal).

New students – 100%* refund (less registration deposit or \$200, whichever is higher).

1.4.9.1.4 Winter Term – after January 28:

No refund.

* Includes tuition and compulsory student fees.

To discuss the refund policy applicable to a special case, undergraduate students should contact their faculty Student Affairs Office (Associate Dean or Director) and graduate students should contact their departmental Graduate Program Director or Graduate Program Coordinator (see www.mcgill.ca/gps/contact).

1.4.9.2 Refund Procedures

You are not automatically refunded your credit balance as many students choose to keep the balance on account for use for a future term. You may, however, request your credit balance to be refunded at any time, after the course withdrawal with full refund period has passed. For directions on requesting your refund online in Minerva, see www.mcgill.ca/student-accounts/your-account/requesting-refund.

1.4.10 Other Policies Related to Fees: Overdue Accounts

All tuition and fees assessed by the University must be paid in full or arrangements must be made to settle the debt.

Students' accounts are considered delinquent if they are not paid in full within 60 days after the bill is issued. McGill places a financial hold on these accounts, preventing students from obtaining official academic transcripts and from accessing Minerva for any registration functions. In the event that a student's account has a hold preventing registration or the release of transcripts, the University may require a guaranteed form of payment, for instance, a certified cheque or money order. Certain financial holds prevent the release of diplomas.

Interest: Interest is charged on overdue balances at the monthly rate of 1.24%, multiplied by the balance outstanding at the end of the month (14.88% annually). The rate is evaluated each Spring, and then is set for the following academic year.



Note: You should regularly verify your account balance on Minerva.

The University has no obligation to issue any transcript of record, award any diploma, or re-register a student if you do not pay your tuition fees, library fees, residence fees, or loans by their due date.

1.4.10.1 Information for Registered Students

If you register for a term but still owe amounts from previous terms, you must either pay your account or make payment arrangements with the Student Accounts Office before the end of the course add/drop period. If you have financial difficulty, first contact the Student Aid Office (Brown Student Services Building, Room 3200; 514-398-6013) to discuss the possibility of obtaining financial aid.

If you fail to pay the previous term's fees or to make arrangements to settle your debt prior to the add/drop deadline, the University will cancel your registration in the current and subsequent terms.

1.4.10.2 Information for Students Who Are No Longer Registered

When students fail to settle their debt or reach a suitable payment arrangement, or fail to provide the Student Accounts Office with up-to-date contact information, the University refers these delinquent accounts to a collection agency. **If neither the University nor the collection agency is able to collect on the account, the University reserves the right to have the student reported to a credit bureau.** You should be aware that the University is entitled to use all legal means to obtain payment and that students are responsible for all costs associated with such actions.

1.4.10.3 Cancelling Registration for Non-Payment

In accordance with the fee policy stated in [section 1.4.10: Other Policies Related to Fees: Overdue Accounts](#), before the University cancels your future term registration(s), the Student Accounts Office will make all reasonable efforts to notify you if your account is delinquent, or if you owe more than \$100 from the previous term. The cancellation is effective the last day of the add/drop period unless you settle the account or make payment arrangements with the University by then. If you pay or make payment arrangements with the Student Accounts Office after the add/drop deadline and you want the University to reinstate your registration for the current or subsequent term(s), you must complete the *Request for Reinstatement* form (www.mcgill.ca/student-accounts/forms) and submit it to the Student Accounts Office, which will forward it to Enrolment Services for approval and processing. Your fee account will be charged \$150 (Reinstatement Penalty) for the processing of the re-enrolment.

1.4.11 Other Policies Related to Fees: Acceptance of Fees vs. Academic Standing

Acceptance of fees by the University in no way guarantees that students will receive academic permission to pursue their studies. If it is subsequently determined that your academic standing does not permit you to continue, all fees paid in advance will be refunded.

For directions on requesting your refund online in Minerva, see www.mcgill.ca/student-accounts/your-account/requesting-refund.

1.4.12 Other Policies Related to Fees: Fees for Students in Two Programs

Students in two programs normally are billed additional fees for their second program. Depending on the level of the two programs (e.g., one at the undergraduate versus one at the graduate level), you may incur both society and faculty fees and/or additional tuition fees. Consult the Student Accounts website at www.mcgill.ca/student-accounts/tuition-fees/general-information/exchange-senior-citizens-part-time-and-double-program#double-program for further details.

You should consult the Student Accounts Office at student.accounts@mcgill.ca for information on tuition fees. Adjustments to bills are made throughout the term in cases where fees cannot be automatically calculated.

1.4.13 Other Policies Related to Fees: Quebec Inter-University Transfer Agreements

If you are taking courses as part of the Quebec Inter-University Transfer (IUT) agreement, you are required to pay the fees at your home university; see [section 1.3.5: Quebec Inter-University Transfer Agreement: McGill Students](#). The agreement covers only the transfer of academic credits.

International students in undergraduate programs are not usually permitted to take IUT courses.

IUT students taking courses at McGill are required to pay additional course charges that are compulsory upon registration, such as special activity charges or course material costs.

The University reserves the right to refuse course registrations in non-government-funded activities.

1.4.14 Other Policies Related to Fees: Senior Citizens

Financial aid is available for students in need who are aged 65 or over and who are enrolled in full-time degree programs. Contact the Scholarships and Student Aid Office for more information at 514-398-6013.

1.4.15 Sponsorships/Awards/Fee Deferrals

1.4.15.1 Students with Sponsors

If your fees will be paid by an external organization or agency (e.g., Department of Veterans Affairs, Saudi Bureau, foreign government), you must have your sponsor confirm the conditions of their sponsorship (sometimes called a financial guarantee) in writing on their corporate letterhead and send this letter

to the University. Once received by the University and if registration has occurred, your account will be adjusted. Sponsors must confirm annually the list of eligible students by August 1st of each year or one month prior to the start of the term. For more information, please refer to www.mcgill.ca/student-accounts/parents-and-sponsors/third-party-sponsorship.

If the sponsor does not pay the promised fees within 90 days of invoicing, you are responsible for paying the fees plus the late payment fee and accrued interest.

1.4.15.2 Students Receiving McGill Awards

Student awards may be paid directly to your student fee account or direct deposited to your bank. Please verify the payment schedule and the method of payment on Minerva's *Financial Aid/Awards* menu if you are expecting a scholarship or award.

Please note that credit balances in student fee accounts that result from payment from scholarships and awards are refundable only after the official "course withdrawal with full refund" deadline for each term.

1.4.15.3 External Scholarships

You may also receive external scholarships from other organizations, outside agencies, parents' employers, or community groups. These awards are typically sent directly to the University. You should provide the Student Accounts Office with a letter from the external body indicating the details and requirements of how the scholarship funds should be distributed, including any conditions for the award. If such information is not specified, the amount of the scholarship will be split into two terms and will be credited to your account as soon as you have registered, with the second instalment credited the first working day in January. If you do not meet the requirements of the scholarship, the funds will be returned to the external body.

You may need an anticipated scholarship to reduce your balance owing for a given term. If so, email student.accounts@mcgill.ca, with "External Scholarships" in the subject line, at least one week before the fee deadline as stated on the e-bill, and indicate the amount, currency (Canadian or US dollars) and agency or company issuing the scholarship. A fee deferral for the expected amount will reduce the amount owed. The deferral will expire by the end of September for the Fall term or January for the Winter term. Interest will be assessed at the prevailing rate on outstanding amounts beyond the deferral deadline.

Please note that credit balances in student fee accounts that result from payment from scholarships and awards are refundable only after the official "course withdrawal with full refund" deadline for each term.

1.4.15.4 Tuition & Fees – Payment Deferral

Students with no prior outstanding tuition/fees may request that payment(s) of tuition and fees be deferred based on self-reported demonstrated sources of funding from the University, government or other external agencies. Such requests will be granted on a term by term basis during which time no interest or late payment charges will be applied on the fees covered by the deferral. The length of time that a fee deferral is in effect will depend on the nature of the fee deferral. For the list of deferrals and their duration, please refer to the [Student Accounts](http://www.mcgill.ca/student-accounts) website.

Students may apply for a fee deferral via "Defer Payment of Tuition and Fees" through the *Financial Aid/Awards* menu on Minerva, selecting the category applicable to their situation. All applicants will be verified to ensure they have self-reported their situation accurately.

The Minerva application for deferral of tuition fees form is available in mid-July for the Fall term (mid-December for the Winter, and early April for the Summer). Students who apply up to the fee deadline can be assured that the deferral will be in effect prior to interest being charged on their account. Note that students who apply late may not request cancellation of interest.

A fee deferral generally covers the amount of the Fall (Winter or Summer) term charges, which include tuition, administrative, and certain academic fees, and health and dental insurance. Charges not covered by the tuition deferral include, but are not limited to, housing charges, meal plans, printing charges, or any other amounts owing that are not considered registration charges. Interest on outstanding already-billed amounts will continue to be charged on a monthly basis excluding amounts covered by the student aid tuition deferral.

Students are reminded that tuition and student housing fees have first call upon financial aid received from any source.

1.4.16 Other Information: Payment Procedures

Please see the Student Accounts website at www.mcgill.ca/student-accounts/your-account/payment for the various methods of payment available to students and their guests.

1.4.17 Other Information: Tax Slips/Receipts

T4A, Relevé 1, T2202A, and Relevé 8 slips are issued on Minerva (www.mcgill.ca/minerva) under the *Student Accounts Menu* by the end of February each year. Note that a social insurance number and a valid mailing address are required to be transmitted to *Revenu Québec* by the University as part of its tax reporting for both the Relevé 1 and the Relevé 8 slips; therefore, it is highly recommended that if you expect to be completing a Quebec income tax return, you provide this information to the University upon registration. More information on these slips is available at www.mcgill.ca/student-accounts/your-account/tax-information.

1.4.18 Yearly Fees and Charges by Faculty

Tuition fees at the undergraduate level are based on the number of credits you take.

Please consult the Student Accounts website at www.mcgill.ca/student-accounts for tables of fees by residency status and faculty.

1.5 Student Records

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Student Records* section of this publication contains important details pertaining to academic standing, grading and grade point averages (GPA), and transcripts, as well as other topics, and should be periodically consulted.

1.5.1 Academic Standing

You enter the University in Satisfactory Standing, and your Academic Standing is determined at the end of each term based on your faculty's regulations. Standing codes are generated in January for the Fall term, in May for the Winter term, and in September for the Summer term, and are displayed on your McGill official and unofficial transcripts. If you receive Unsatisfactory Standing, you must apply to your faculty for readmission. Consult the appropriate section of this publication for the regulations on Academic Standing for your faculty.

1.5.1.1 Academic Standing: Faculties of Arts and Science (including B.A. & Sc.)

Your Academic Standing is based primarily on your cumulative grade point average (CGPA), but may also be affected by your term grade point average (TGPA). The Standing in each term determines if you are allowed to continue your studies in the next term, and if any conditions will be attached to your registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January, i.e., if you have deferred examinations or Fall/Winter spanned courses, grades for those courses don't affect your Fall Academic Standing—they will only affect your Fall TGPA. Therefore, Academic Standings for the Fall term are designated as *Interim*. Note that Interim Standings do not appear on your official transcript. Consult the appropriate section of this publication for the regulations on Interim Standing decisions.

1.5.1.1.1 Satisfactory/Interim Satisfactory Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Satisfactory or Satisfactory Standing:

- you may continue in your program;
- you have a CGPA of 2.00 or greater.

1.5.1.1.2 Probationary/Interim Probationary Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Probationary Standing (at the end of the Fall term):

- you may continue in your program;
- you must carry a reduced load (maximum 14 credits per term);
- you are strongly advised to consult a departmental adviser, before withdrawal deadlines about your course selection for the Winter term;
- you should see your Faculty adviser to discuss degree planning.

If you are in Probationary Standing:

- you may continue in your program;
- you must carry a reduced load (maximum 14 credits per term);
- you must raise your CGPA to return to Satisfactory Standing;
- you should see your departmental adviser about your course selection;
- you should see your Faculty adviser to discuss degree planning.

You will be placed in Probationary Standing:

- if your CGPA falls between 1.50 and 1.99 and if you were previously in Satisfactory Standing;
- if your CGPA falls between 1.50 and 1.99 and your TGPA in Fall or Winter is 2.50 or higher, and if you were previously in probationary or Interim Unsatisfactory Standing;
- if you were previously in Unsatisfactory Readmitted Standing and have satisfied the relevant conditions specified in your letter of readmission, but your CGPA is still less than 2.00.

1.5.1.1.3 Unsatisfactory Readmitted Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Unsatisfactory Readmitted Standing:

- you were previously in Unsatisfactory Standing and were readmitted by your Faculty or the Committee on Student Standing;
- you must meet the conditions specified in your letter of readmission to be allowed to continue in your program;
- you must carry a reduced load (maximum 14 credits per term) — a lower limit may be specified in your conditions of readmission;
- you should see your departmental adviser to discuss your course selection;
- you should see your Faculty adviser to discuss degree planning.

1.5.1.1.4 Unsatisfactory/Interim Unsatisfactory Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Unsatisfactory Standing (at the end of the Fall term):

- you may continue in your program;
- you must carry a reduced load (maximum 14 credits per term);
- you are strongly advised to consult an academic adviser, before withdrawal deadlines, about your course selection;
- you should see your Faculty adviser to discuss degree planning.

If you are in Unsatisfactory Standing:

- you have failed to meet the minimum standards set by the faculties;
- you may not continue in your program, and your registration will be cancelled.

You will be placed in Unsatisfactory Standing:

- if your CGPA falls or remains below 1.50;
- if your TGPA in the Fall or Winter falls below 2.50 and your CGPA is below 2.00 and if you were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing;
- if you were previously in Unsatisfactory Standing and were readmitted by the Faculty or the Committee on Student Standing but have not satisfied the conditions specified in the letter of readmission.

Appeals for readmission by students in Unsatisfactory Standing should be received no later than July 15 for readmission to the Fall term, November 15 for the Winter term, and June 10 for the Summer term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). If you are in Unsatisfactory Standing for the second time, you must withdraw permanently.

Normally, supplemental examinations are not permitted; however, if you are in Unsatisfactory Standing, you may appeal for permission to write a supplemental examination, clearly stating the reasons for special consideration and providing proof as appropriate.

Appeals for readmission or permission for supplemental examinations must be submitted to:

- Arts: Associate Dean (Student Affairs)
- Science and B.A. & Sc.: Director of Advising Services



Note for students in the Concurrent B.Sc.-B.Ed. Program: If you receive an F or J in any Education Field Experience course, you are placed in Unsatisfactory Standing. Although you may complete your term, you are required to withdraw from the Concurrent Program. However, you may apply to transfer to a conventional B.Sc. program as outlined in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.34: Science or Mathematics for Teachers](#)*.

1.5.1.1.5 Incomplete Standings: Faculties of Arts and Science (including B.A. & Sc.)

- Standing awaits deferred exam.
- Must clear K's, L's, or Supplementals.
- Standing Incomplete.

If you are a student with an Incomplete Standing (in the Winter or Summer term):

- you may register for the Fall term, but your Standing must be resolved by the end of the course change period for that term;
- you may continue in the program if Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing;
- you may not continue in your program and your registration will be cancelled if your Standing changes to Unsatisfactory Standing.

If your Standing changes to Unsatisfactory:

- you may ask for permission to continue in your program;
- you must make a request for readmission as soon as you are placed in Unsatisfactory Standing;
- you must provide proof of extenuating circumstances that affected your academic performance (e.g., medical or other documentation).

Requests for readmission following an Unsatisfactory Standing must be submitted to:

- Arts: Associate Dean (Student Affairs)
- Science and B.A. & Sc.: Director of Advising Services

If your Standing is still incomplete by the end of course change period, you should immediately consult with your Faculty Student Affairs Office.

At the end of the Winter term, if you have a mark of K or L, you will be placed in the appropriate Standing in June, if the outstanding mark in the course will not affect your Standing. Otherwise, Standing decisions will be made only once incomplete marks have been cleared. For more information about incomplete grades, please refer to [section 1.5.6: Incomplete Courses](#).



Note: Requests are made at *Service Point* (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.5.1.2 Academic Standing: Faculty of Engineering

In the Faculty of Engineering, a decision on your Academic Standing is determined on the basis of your cumulative grade point average (CGPA) according to the criteria listed below.



Note: The Faculty determines Academic Standing decisions after the completion of each term (Fall, Winter, Summer) based on grades obtained up to that point. If you have been granted permission to defer one or more examinations, the Academic Standing decision will be made disregarding the deferred exam grade.

1.5.1.2.1 Satisfactory Standing: Faculty of Engineering

You are in Satisfactory Standing if you have a CGPA of 2.00 or greater.

You may continue with your studies under the following conditions:

- If you obtained a grade of D or F in a core course, you must repeat the course successfully (grade of C or better) or replace it with an alternative approved course and successfully complete the course.
- If you obtained a grade of F in any other course, you must either repeat the course successfully before graduation or replace it with an alternative approved course and successfully complete the course before graduation.

1.5.1.2.2 Probationary Standing: Faculty of Engineering

You are in Probationary Standing if you have **EITHER**:

a CGPA that is less than 2.00 and equal to or greater than 1.20

OR

a TGPA that is equal to or greater than 2.50 and a CGPA that is less than 2.00.

You may continue with your studies under the following conditions:

- You must reduce your credit load to a maximum of 13 credits per term and must obtain, at the end of the term, either a CGPA of 2.00 or greater or a TGPA of 2.50 or greater.
- If you have a TGPA of 2.50 or greater, but you have a CGPA that is less than 2.00, you may continue with your studies but you will remain in Probationary Standing until you obtain a CGPA of 2.0 or greater.
- If you do not obtain either the TGPA or CGPA noted above, you will be placed in Unsatisfactory Standing.
- You must consult a faculty or departmental adviser before withdrawal deadlines concerning your course selection.

1.5.1.2.3 Unsatisfactory Standing: Faculty of Engineering

You are in Unsatisfactory Standing if you have **EITHER**:

a CGPA that is less than 1.20

OR

a TGPA that is less than 2.50 and a CGPA that is less than 2.00.

If at any time, you were placed in Unsatisfactory Standing and were readmitted to the Faculty of Engineering after one term away, and you are placed in Unsatisfactory Standing again at the end of any subsequent term, you may not continue in your program. You will be asked to **withdraw** from the Faculty of Engineering for a **minimum of one term or permanently**, based on the conditions of your last letter of readmission.

If you are in Unsatisfactory Standing for the first time, the regulations below apply.

Students in Interim Unsatisfactory Standing after the Fall term:

You may continue with your studies under the following conditions:

- You must reduce your credit load to a maximum of 13 credits per term and must obtain, at the end of the term, either a CGPA of 2.00 or greater or a TGPA of 2.50 or greater.
- If you have a TGPA of 2.50 or greater, but your CGPA is less than 2.00, you may continue with your studies but will remain in Probationary Standing until you obtain a CGPA of 2.00 or greater.
- If you do not obtain either the TGPA or CGPA noted above, you will be placed in Unsatisfactory Standing.
- You must consult a faculty or departmental adviser before withdrawal deadlines concerning your course selection.

Students in Unsatisfactory Standing after the Winter term:

- You must withdraw from the Faculty of Engineering for a minimum of one term.

For more information about Academic Standing, see www.mcgill.ca/engineering/student/sao/policies/academic.

1.5.1.3 Academic Standing: Faculty of Law

If you do not obtain a sessional grade point average (GPA at the end of Fall and Winter terms combined) of at least 1.50, you will be required to withdraw from the Faculty. If your sessional GPA is between 1.50 and 1.99, you will be permitted to continue with your program, but you must obtain a subsequent sessional GPA of 2.50 or a Cumulative GPA (CGPA) of 2.00. You must have a CGPA of 2.00 to be considered for graduation. Students who are required to withdraw from the Faculty may be authorized to continue in their program by the Faculty Admissions Committee if there are exceptional reasons for the required withdrawal.

1.5.2 Credit System

The faculties listed in this publication use the credit system, where each course is assigned a credit rating reflecting the number of weekly contact hours. In general, a three-credit course indicates three hours of lectures per week for one term, but this does not apply to all faculties. Laboratory contact hours usually count for fewer credits. Credits also reflect the amount of effort required of the student and generally assume two hours of personal study for each contact hour.

The credit weight of each course is indicated in parentheses beside the course title.



Note: Credit for multi-term courses (courses with the suffixes: D1, D2; N1, N2; J1, J2, J3) is granted only after successful completion of all components in the specified time frame. For example, a student would have to take D1 and D2 components in consecutive terms and successfully complete them both in order to obtain credit.



Note for Agricultural and Environmental Sciences, and Science: As a guideline, a one-credit course would represent approximately 45 hours total work per course. This is, in general, a combination of lecture hours and other contact hours such as laboratory periods, tutorials, and problem periods as well as personal study hours.



Note for Engineering: One credit normally represents three hours total work per week. This is, in general, a combination of lecture hours and other contact hours such as laboratory periods, tutorials and problem periods as well as personal study hours. As a guide, the average number of hours per week of course activities is indicated in hours in the course listing after the course credit. For example, (3-1-5) indicates a course consisting of three lecture hours per week, one hour of tutorial or lab, and five hours of personal study per week.

1.5.3 Grading and Grade Point Averages (GPA)

Courses can be graded either by letter grades or in percentages, but the official grade in each course is the letter grade. Where appropriate, a class average appears on transcripts expressed as the letter grade most representative of the class performance.

Since Fall 2002, the University has only used letter grades on transcripts and verification forms.

Grades A through C represent satisfactory passes, D a conditional (non-continuation) pass, and F a failure. Certain courses have been approved for Pass/Fail (P/F) grading. Students may also designate elective courses to be graded under the S/U option. See [section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).

You must obtain a grade of C or better in courses that you take to fulfil program requirements. You may not register in a course unless you have passed all the prerequisite courses with a grade of C or better, except by written permission of the appropriate department chair.

Grades	Grade Points	Numerical Scale of Grades
A	4.0	85 – 100%
A-	3.7	80 – 84%
B+	3.3	75 – 79%
B	3.0	70 – 74%
B-	2.7	65 – 69%
C+	2.3	60 – 64%
C	2.0	55 – 59%
D	1.0	50 – 54%
F (Fail)	0	0 – 49%



Note for Engineering: The Faculty of Engineering does not use this numeric scale. See *Note for Engineering* below.



Note for Law: Faculty of Law does not use this numeric scale.

The University assigns grade points to letter grades according to the table above. Your Academic Standing is determined by a grade point average (GPA), which is calculated by multiplying the course credit by the grade points, and dividing the sum by the total course GPA credits. The result is not rounded up to the nearest decimal point.

GPA credits are the credits of courses with grades that are assigned grade points.

$$\text{GPA} = \frac{\sum (\text{course credit} \times \text{grade points})}{\sum (\text{GPA course credits})}$$

The *term grade point average* (TGPA) is the GPA for a given term calculated using all the applicable courses at the same level in that term. The *cumulative grade point average* (CGPA) is the GPA calculated using your entire record of applicable courses at McGill at the same level; if you change levels, e.g., from undergraduate to graduate, the CGPA starts again.

This policy took effect in January 2003. Prior to January 2003, if your degree program had changed, e.g., from B.Sc. to B.A., the CGPA started again. For students with academic information prior to Fall 2002, who are registered in a different program or in a different level post-Fall 2002, the transcript displays a special message regarding the CGPA restarting.

If you repeat courses, all results are included in the GPA calculation. Therefore, grades of D or F continue to be used in the CGPA calculation even after you repeat the course or if you take a supplemental examination. Note that credits are only granted once for a repeated course regardless of the passing grade.

You must obtain a minimum CGPA of 2.00 to be considered for graduation with a McGill degree.



Note: During the first week of lectures, each instructor will provide you with a written course outline. This information should include, where appropriate:

- whether there will be a final examination in the course;
- how term work will affect the final mark in the course;
- how term work will be distributed through the term;
- whether there will be a supplemental examination in the course, and if so, whether the supplemental exam will be worth 100% of the supplemental grade, or whether term work will be included in the supplemental grade (courses with formal final examinations *must* have supplementals);
- whether students with marks of D, F, J, or U will have the option of submitting additional work, and, if so, how the supplemental mark will be calculated with the extra work (applicable only to students in Science and B.A. & Sc.).



Note for Engineering: In the Faculty of Engineering, letter grades are assigned according to the grading scheme adopted by the professor in charge of a particular course. This may not correspond to grades indicated in the “Numerical Scale of Grades” column in *Grading and Grade Point Averages*. A grade of D indicates marginal performance which is acceptable only for Complementary Studies courses (i.e., Group A *Impact of Technology on Society* and Group B *Humanities and Social Sciences, Management Studies and Law*), Basic Science Complementary Courses (for Computer Engineering and Software Engineering students from CEGEP), and Elective Courses (for Mechanical Engineering students from CEGEP and for Architecture students). A grade of D is not acceptable for required (core) courses, technical complementary courses, laboratory complementary courses, or courses in any other category of the Engineering programs. Individual departments/schools will decide if a student with a D in a prerequisite course(s) may take the subsequent course.

Grades have the following designations:

A, A-	Very Good
B+, B, B-	Good
C+, C	Satisfactory
D	Conditional Pass
F	Fail

1.5.4 Grading and Grade Point Averages (GPA): Other Grades

Other Grades

J	—	unexcused absence (failed); the student is registered for a course but does not write the final examination or do other required work; calculated as a failure in the TGPA and CGPA
K	—	incomplete; deadline extended for submission of work in a course
KE or K*	—	further extension granted
KF	—	failed to meet the extended deadline for submission of work in a course; calculated as a failure in TGPA and CGPA

Other Grades

KK	—	completion requirement waived; not calculated in TGPA or CGPA
L	—	deferred examination
LE or L*	—	permitted to defer examination for more than the normal period
NR	—	no grade reported by the instructor (recorded by the Registrar)
P	—	pass; not calculated in TGPA or CGPA
Q	—	course continued in next term (applicable only to courses taken pre-Fall 2002)
S	—	satisfactory; equivalent to C or better in an elective course; not calculated in TGPA or CGPA (See section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option.)
U	—	unsatisfactory; equivalent to D or F in an elective course; not calculated in TGPA or CGPA (See section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option.)
W	—	withdrew; a course dropped, with permission, after the Course Change deadline; not calculated in TGPA or CGPA
WF	—	withdrew failing; a course dropped, with special permission in an exceptional case, after faculty deadline for withdrawal from course, the student's performance in the course at that stage being on the level of an F; not calculated in TGPA or CGPA (Not used by Music.)
WL	—	faculty permission to withdraw from a deferred examination; not calculated in TGPA or CGPA
NA or &&	—	grade not yet available
W- - or - -	—	no grade; student withdrew from the University, not calculated in TGPA or CGPA

1.5.5 Grading and Grade Point Averages (GPA): Unexcused Absences

All students who miss a final exam are given a J grade. You then have the following options:

1. Ask to be assigned a grade based only on the grades earned for your work submitted up to, but not including, the final exam.
The grade earned is calculated by adding the grades obtained on the individual pieces of work and a grade of 0 for the portion of the final grade allocated to the final exam. This option is not available if the professor stipulated in the course outline that the final exam is a required part of the evaluation.
2. Request a deferred exam, if you have the appropriate reasons and documentation.
3. Apply for a supplemental exam if permitted by your faculty.



Note for Engineering: Option 1 is not available to students in the Faculty of Engineering.

You must request option 1) no later than four months after the end of the examination period of the original course.

You must request option 2) by the faculty deadlines as indicated in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations > [section 1.6.7.2: Final Examinations: Deferred Examinations.](#)*

You must request option 3) by the faculty deadlines as indicated at www.mcgill.ca/students/exams.

If you wish to appeal a J grade, you should write to your Associate Dean or Director.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.5.6 Incomplete Courses

If the instructor decides there is sufficient reason to permit a delay in the submission of required term work, an extension of the deadline after the end of the course may be granted to the student. In this case, the instructor will submit a grade of K (incomplete).



Note: If the instructor submits a grade of K, he or she will also indicate the date by which the student must complete the work. Consult the faculty sections for maximum extensions.



Note: If the instructor submits a new grade within the deadline, both the new grade and the grade of K will appear on your verification forms and unofficial and advising transcript. However, the new grade will replace the K on your official transcript.



Note: If you do not complete the required work before the deadline, a grade of KF will be updated on your record. A KF denotes a failed course and is calculated in the TGPA and CGPA as an F.



Note: In exceptional circumstances, and with the approval of the Associate Dean or Director, the deadline may be extended further, in which case the grade of KE (further extension granted) appears. If you do not meet the extended deadline, a grade of KF will replace the KE.



Note for the Faculties of Arts and Science (including B.A. & Sc.): An instructor who believes that there is justification for a student to delay submitting term work may extend the deadline until after the end of the course. In this case, the instructor will submit a grade of “K” (incomplete), indicating the date by which the work is to be completed. The maximum extensions for the submission of grades are as follows:

students graduating in June

Fall, Winter, and multi-term courses	April 30

non-graduating students

Fall courses	April 30
Winter and multi-term courses	July 30
Summer courses	November 30

Students’ deadlines for submitting their work must be scheduled appropriately before these dates to ensure that the work can be assessed and the grade submitted on time.

It is important to note that instructors may impose earlier deadlines than those listed above.

If grades to clear K’s have not been submitted by the above deadlines, the K is automatically changed to a KF and counts as an F in the GPA.

Students with a grade of K who have serious extenuating circumstances may request an extension of the K deadline (KE) from the Associate Dean or Director of their faculty.

For more information, see [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#).

Requests must be made to the instructor for consideration. If your request is approved, the instructor will inform you of the extension deadline, and submit a grade of K (incomplete). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.



Note 1 for Law students: In the Faculty of Law, permission to delay submission of required term work must be obtained from the Student Affairs Officer. It cannot be granted by the instructor. If, in the opinion of the Student Affairs Officer, there is sufficient reason to permit a delay in the submission of required term work, an extension of the deadline after the end of the course may be granted to the student. In this case, the instructor will submit a grade of K (incomplete). If an extension of the deadline is granted, the Student Affairs Officer will indicate the date by which the student must complete the work. If the instructor submits a new grade within the new deadline, both the new grade and the grade of K will appear on the student’s faculty reports and verification forms. However, on the student’s official transcript the new grade will replace the K. If the required work is not completed before the deadline, a grade of KF will be updated on the student’s record. A KF denotes a failed course and is calculated in the TGPA and CGPA the same as an F. In exceptional circumstances, and with the approval of the Assistant Dean (Student Life and Learning), the deadline may be extended further, in which case the grade of KE (further extension granted) will appear. If the extended deadline is not met, a grade of KF will replace the KE.



Note 2 for Law students: If, without a valid excuse, you do not participate in or write a final examination or submit required term work for any courses you were registered in, you will receive a final grade of J (unexcused absence).



Note for Music students: A Music student who has a mark of K not cleared in mid-May is ineligible for scholarships.

1.5.7 Transfer Credits

You may be granted credit for courses passed with a grade of C or better at other universities, as long as you are within the number of credits imposed by McGill's residency requirements and program requirements in some faculties.

In general, a maximum of 60 transfer credits from other institutions may be granted. You need a minimum of 60 credits completed at McGill to qualify for a McGill degree. You must be in satisfactory standing in order to be granted the transfer credits. Courses with grades of C-, P, and S are not considered for transfer credits. The letter grades applied by the host institution take precedence over the numerical grades if both are provided.

Effective Winter 2011, students who participate in a formal university exchange will be eligible to transfer earned credits back to McGill if the grade earned in the host university course(s) is equal to or higher than the grade / CGPA required to graduate from the host university. The policy will apply to both elective and required courses.

You need to obtain approval from your Student Affairs Office for courses taken at other universities. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before you take the courses, especially if the courses are part of your program requirements.

Grades earned at the host university for transfer courses are not entered on your McGill transcript and are not part of the TGPA or CGPA calculation. Courses at a host university which you fail or from which you withdraw will appear on your McGill transcript with zero credit granted.

For universities outside Quebec, it is your responsibility to ensure that the host institution sends an official transcript to the Student Affairs Office. You must submit all documents required for approval of your transfer of credits with your faculty at McGill within four months of completing your exchange program or study away. If you are studying at another Quebec university on an Inter-University Transfer (IUT) agreement, the host university sends your grade(s) to McGill automatically. For additional information, see [section 1.3.5: Quebec Inter-University Transfer Agreement: McGill Students](#).

Transcripts for transfer courses must be received by the following deadlines:

Graduation Term	Convocation
April 1, if your term of graduation is Winter	Convocation in Spring
August 15, if your term of graduation is Summer	Convocation in Fall
December 15, if your term of graduation is Fall	Degree granted February, Convocation in Spring

Transcripts not received by the appropriate date are considered for the next graduation period only.



Note for the Faculty of Arts: The Arts Office of Advising & Student Information Services (OASIS) does not encourage you to participate in any type of study away or exchange in the last term of your final year (U3), as this will delay your graduation to the next graduation period.



Note for the Faculty of Engineering: The number of transfer credits granted will be limited to ensure that you complete a minimum of 60 credits of courses at McGill taken to satisfy your degree requirements, excluding those taken to satisfy the Required Year 0 (Freshman) courses listed in your program.



Note for the Faculty of Law: A limited number of the credits required for the B.C.L./LL.B. degree program may be obtained in appropriate courses offered by other McGill faculties or other universities, with the approval of the Assistant Dean (Student Life and Learning) before registration. The total number of credits allowed under this regulation must not exceed six non-law courses and six non-McGill law courses.



Note for the Faculty of Science (including B.A. & Sc.): The Science Office for Undergraduate Student Advising (SOUSA) does not encourage you to participate in any type of study away, or exchange in the last term of your final year (U3), as this will delay your graduation to the next graduation period.

1.5.8 Verification of Student Records: Unofficial Transcripts

Subject to [section 1.5.10: Changes to Student Records after Normal Deadlines](#), you are responsible for verifying your academic record on Minerva (www.mcgill.ca/minerva) using the unofficial transcript to ensure that you are registered in the proper courses, and that the correct program information and expected term of graduation appear on your record.

If you are graduating, verify your record on Minerva before the end of your final term to ensure that the correct expected graduation term appears on your unofficial transcript; if not, you may be overlooked for graduation. You should direct any questions or problems with your record to your Student Affairs Office.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.5.9 Verification of Student Records: Degree Evaluation

Degree Evaluation is a Minerva tool to help students and advisers compare the student's academic record with the requirements of a specific program. If you have access to Degree Evaluation on Minerva under the *Student Records Menu* (www.mcgill.ca/minerva) you can review your progress within your

current program. Also, if you are considering a program change, you can generate a "what-if" comparison of your academic record with the requirements of another program.

The presentation in the Degree Evaluation Report may have a different appearance than the requirements listed in this publication. For example, a long listing of courses may be grouped into one course "attribute" on the Minerva report.

Degree Evaluation also provides a central record of adviser/faculty-approved adjustments to your program of study (e.g., the replacement of one specified course with another or acceptance of a non-McGill course for credit).

Please note that Degree Evaluation is an advising tool only. A Degree Evaluation Report that indicates program requirements have been satisfied does NOT constitute approval to graduate.

For details regarding Degree Evaluation, including *Reading a Degree Evaluation Report*, see www.mcgill.ca/students/courses/plan/evaluation.

1.5.10 Changes to Student Records after Normal Deadlines

1.5.10.1 Student Record Changes

Student record changes include the following: course add or course drop, course withdrawal, university withdrawal, program change (including changing majors, minors, or concentrations). They also include changes to tuition status based on the submission of legal documents.

1.5.10.2 Registrar Deadlines

Fall term – January 31

Winter term – June 1

Summer term – October 1

1.5.10.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the Registrar deadlines listed in [section 1.5.10.2: Registrar Deadlines](#), you must make a request in writing to your Associate Dean or Director, clearly explaining why you could not request the change before these dates. The Associate Dean or Director will review your request and make a decision. If your request is approved, the change is processed according to existing faculty and Enrolment Services student record procedures.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish). However, it is important that you also see a faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.5.10.4 After Registrar Deadlines

The University does not normally consider a change requested after the Registrar deadlines listed in [section 1.5.10.2: Registrar Deadlines](#) have passed. In situations where there are “extraordinary personal” or “extraordinary academic” circumstances that could not have been foreseen prior to these deadlines, you may formally request a student record change from your Associate Dean or Director. If your Associate Dean or Director approves the request, the change will be processed according to faculty and Enrolment Services student record procedures. You may be assessed a fee for a change requested after Registrar deadlines. For all changes other than grade changes, the faculty will file full documentation that supports the extraordinary circumstances with Enrolment Services.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish). However, it is important that you also see a faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.5.10.5 Fee Assessment Consequences

When a change to your student record is made, the revised fee assessment appears on your next fee statement.

If you want to contest the fee assessment, you must make a written request to Enrolment Services. Enrolment Services reviews the extraordinary circumstances described in the supporting documentation provided by your faculty, and consults with the Student Accounts Office if necessary, to decide whether or not to consider the request. Enrolment Services then sends you a letter explaining the decision.

1.5.10.6 Student's Citizenship and/or Immigration or Fee Exemption Status

Note that your faculty/school or Graduate and Postdoctoral Studies does not handle changes related to your citizenship and/or immigration or fee exemption status; see [section 1.2.2: Legal Documents: Why Does McGill Collect Legal Documents from You?](#) You may be assessed a fee for a change requested after the submission deadline.

1.5.11 Transcript of Academic Record: Unofficial Transcripts

If you require a copy of your student record, access Minerva (www.mcgill.ca/minerva) to view and print an unofficial transcript. This applies to records from 1976 to the present. For pre-1976 records, you must order an official transcript. See [section 1.5.12: Transcript of Academic Record: Official Transcripts](#).

1.5.12 Transcript of Academic Record: Official Transcripts

Use Minerva (www.mcgill.ca/minerva) to order an official transcript at *Student Menu > Student Records Menu > Request Printed/Official Transcript*. For more information on transcripts, delivery method, and processing time, see www.mcgill.ca/students/records/transcripts.

Alumni who were registered or graduated prior to Fall 2002: Please visit the IT Knowledgebase (www.mcgill.ca/it) to view how your McGill ID & Minerva PIN has changed.

Alumni who were registered or graduated prior to 1972 (archived records): You are unable to submit a request in Minerva. Complete and sign a *Request for Release of Official Document* form located on: www.mcgill.ca/students/records/forms and submit the form to Service Point (www.mcgill.ca/students/records/contact).



Note: Proxy requests will be accepted only with written authorization.

1.5.13 Transcript of Academic Record: General Information

The University issues official transcripts free of charge and will mail them by regular mail to the address(es) indicated on the request made in *Minerva*. Alternatively, they may be picked up in person at *Service Point* in sealed envelopes.



Note: You cannot submit a transcript request in Minerva if you have **holds** on your record (e.g., accounting, registrar, library, etc.). Please verify your unofficial transcript in Minerva for any holds.

A McGill transcript includes all attempted work and final grades obtained in any and all programs. The University does **not** issue partial transcripts under any circumstances.

Requests are processed in about 3 to 5 working days (5 to 7 during peak periods). Requests for archived transcripts (pre-1972), however, will take longer.

The University may not be held responsible for the loss or delay of transcripts in the mail.

Official transcripts are printed on secure paper that cannot be copied.

For more information on requesting official transcripts refer to: [section 1.5.12: Transcript of Academic Record: Official Transcripts](#).

1.5.14 Transcript of Academic Record: Course Numbering on the Transcript

Prior to September 2002, course numbers had seven-character designations beginning with a three-number code indicating the teaching unit/department. The next three digits specified the course, with the first of these indicating its level. The final character was a letter indicating the term, or terms, during which the course was offered. For example:

107-200A = Philosophy (107) course (200) in Fall term (A);

301-202B = Architecture (301) course (202) in Winter term (B);

154-230D = Economics (154) course (230) extending for two terms, Fall and Winter (D).

A list of the former Teaching Unit Codes and their Subject Code equivalents is available at www.mcgill.ca/student/records/transcripts/key.

For information on our current course numbering, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > Course Information and Regulations > [section 1.3.2.1.1: Course Numbering](#)*.

1.6 Examinations: General Information



Note: The University Exam Regulations governed by the University Student Assessment Policy are available at www.mcgill.ca/students/exams/regulations.

In addition to the *University Student Assessment Policy* and the general examination regulations listed at www.mcgill.ca/students/exams/regulations, you should also consult the faculty sections of this publication for particular regulations. You will be informed of the evaluation method used in each course by the end of the Course Change period.

Every student has a right to write term papers, examinations and theses in English or in French, except in courses where knowledge of a language is one of the objectives of the course.

You are not permitted to write an examination in any course unless you have fulfilled the requirements of the course to the satisfaction of the instructor and your Associate Dean or Director. Once you have presented yourself for an examination or test, you must submit all written work to the invigilator before leaving.

You must have your valid McGill student ID card with you to write an examination. Forgetfulness is not an acceptable excuse.

You are reminded that cheating in any examination is considered a serious offence that could lead to expulsion from the University. Students are not permitted to have in their possession, or to use, any unauthorized materials during an examination. This includes electronic devices such as cell

phones, iPods, MP3 players, PDAs, and other web-access devices. Unauthorized items found on the student or desk area during an exam will be confiscated and turned over to the Disciplinary Officer.

Responses on multiple-choice examinations are normally checked by the Exam Security Computer Monitoring Program. The program detects pairs of students with unusually similar answer patterns on multiple-choice examinations. Data generated by the program can be used as admissible evidence either to initiate or corroborate an investigation or a charge of cheating under Section 16 of the *Code of Student Conduct and Disciplinary Procedures*.

All students are responsible for familiarizing themselves with the [University Student Assessment Policy](http://www.mcgill.ca/students/exams/regulations) and the *Code of Student Conduct and Disciplinary Procedures* (available at www.mcgill.ca/students/exams/regulations).

You can find information about issues related to academic integrity at www.mcgill.ca/students/srr/honest.



Note for Engineering Students: You should also refer to the Engineering website for more information at www.mcgill.ca/engineering/student/sao/policies/examinations/examination.



Note for Law Students: You should also refer to the Law website for more information at www.mcgill.ca/law-studies/information/exams.

1.6.1 Class Tests

Members of the teaching staff may give interim class tests from time to time.

1.6.2 Special Examination Facilities for the Disabled

If you have a permanent or temporary disability, consult the Coordinator, Office for Students with Disabilities, about the possibility of arranging special examination facilities. For more information, see: www.mcgill.ca/osd.

1.6.3 Credit by Examination

In certain exceptional cases and in certain faculties, you can apply to the Associate Dean or Director to write a final examination in order to obtain credit in a course that you were not registered in. This is possible only in those courses where there is no other assessment except the final examination.

1.6.4 Faculty of Engineering Policy on use of Calculators in Faculty Tests and Examinations

The use of calculators during tests and examinations is at the discretion of the course instructor. If a calculator is permitted in the examination, you are required to use one of the following calculators: CASIO fx-100MS, CASIO fx-115MS, CASIO fx-260, CASIO fx-570MS, CASIO fx-991MS, CASIO fx-992S, SHARP EL-510, SHARP EL-520, SHARP EL-531, or SHARP EL-546 (all extensions are acceptable for SHARP calculators). No other calculators will be permitted, regardless of their level of sophistication, unless otherwise stated by the examiner. **Non-regulation calculators will be removed and no replacement calculator will be provided.** You are expected to own one of the above-listed Faculty of Engineering Standard Calculators.

For more information, see www.mcgill.ca/engineering/student/sao/policies/examinations/calculators.

1.6.5 Laptop Examination Agreement for the Faculty of Law

The Examination Agreement is designed to confirm that students agree to the terms of the laptop policy. The following are the components of the Examination Agreement:

1. I elect to write one or more of my law examinations using a laptop with the approved McGill University software during the examination period. I recognize that this is a third-party application, and that neither McGill University nor the Faculty of Law is responsible for its proper functioning.
2. I confirm that my personal laptop meets the minimum requirements (as stipulated in the Faculty of Law – Laptop Exam Student section of the myCourses course Law-Law-Student Affairs-Examinations) for the laptop exam pilot project. My laptop has access to the McGill wireless network. Once I have completed this agreement, I will download and install the University-approved software on my laptop. I will follow the tutorial and test the software on my laptop within the stated deadlines.
3. If my laptop fails during the exam (e.g., a computer crash), I agree to continue and finish the exam by handwriting it. I understand that I will not be granted additional time to resolve the computer problems during the exam. If the incomplete examination cannot be retrieved from my computer within two working days, the Associate Dean (Academic) will determine remedial options.
4. I understand that, if necessary, ICS staff may be available to troubleshoot any difficulties encountered with the approved software (a third-party application). I will be asked to sign an *IST Customer Services-Computer Repair Waiver* acknowledging that ICS staff will not be held responsible for any theft, loss, or damage (to hardware or software) occurring during the diagnosis or repair of my laptop, or for any loss of data, regardless of when it was lost.

For more information on this agreement, see: www.mcgill.ca/law-studies/information/exams.

1.6.6 Laptop Examination Policy for the Faculty of Law

All students wishing to write one or more final examinations on their laptop must:

1. complete the Faculty of Law laptop Examination Agreement;
2. download the Faculty-approved software and
3. run a test prior to the start of the examination period;
4. if necessary, sign an *IST Customer Services-Computer Repair Waiver*.

The Student Affairs Office will provide term-specific deadlines. You will not be permitted to use a laptop unless you have fulfilled the above requirements. You must ensure that the laptop you are using meets the minimum requirements for the software as specified by the Student Affairs Office, as posted on the [SAO website](#) and [myCourses](#). Students using laptops will not be placed in separate examination rooms. You may opt out of using your laptop at any point, even once the examination has started, and revert to handwriting.

1.6.7 Final Examinations

Formal final examinations are held during an examination period at the end of the course term. The dates of the examination periods are listed at www.mcgill.ca/importantdates.



Important Note: You are advised not to make travel plans prior to the release of the Final Exam Schedule. Vacation plans *do not* constitute grounds for the deferral or re-scheduling of final exams.

In some courses there is no final examination; your standing in these courses is determined by term work and class tests.

1.6.7.1 Final Examinations: University Regulations Concerning Final Examinations

1.6.7.1.1 Preamble

The objectives of these regulations are as follows:

1. to protect students from excessive workloads;
2. to use the full 15-week term to maximum advantage.

1.6.7.1.2 Regulations

1. These regulations shall apply to undergraduate courses up to and including the 500 level that are evaluated by the use of written examinations. They shall not apply to clinical, field, laboratory, performance, and seminar courses, or to other courses that are evaluated solely by means of a design, paper, program, or project.
2. Written examinations (including take-home examinations) shall not be held during the last two weeks of scheduled classes during the Fall and Winter terms, except where a pattern of continuous evaluation has been established, in which case the total value of examinations given in this period shall comprise no more than 10% of the final mark.
3. If the written examinations in a course constitute 50% or more of the final mark, one of these shall be given as a final written examination, and it shall take place during the examination period after the last day of scheduled lectures in December or April.
4. A final examination given during the examination period shall be worth at least 25% of the final mark.
5. Students shall be informed of all course requirements by the end of the course change period. All term work shall be assigned early enough in the term for students to complete the assignment(s) by the last day of class.
6. The due date for term work in courses to which these regulations apply shall be no later than the last day of classes.
7. In courses that span the Fall and Winter terms (course pairs with numbers ending D1 and D2), instructors who wish to give a mid-year examination in December must schedule it in the formal examination period.
8. The principles enunciated in these regulations shall be applied, appropriately modified, to courses given during the summer, to other courses of less than a 13-week duration, and to courses in the Faculties of Law, Medicine, Dentistry, and Education that do not follow the normal University Timetable.
9. Individual faculties may propose variations in these regulations to the Academic Policy and Planning Committee in order to meet their special needs.
10. These regulations, and any variations to them, shall be made known to students by each faculty.

Instructors are not permitted to grant any special treatment regarding examinations to any student. Students who believe there are circumstances which might justify making special examination arrangements for them or which might legitimately be taken into account in evaluating their performance should apply to the Associate Dean or Director of their faculty.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

It is the responsibility of the student to confirm the date, time and place of the examination by checking examination schedules posted on notice boards on campus and at www.mcgill.ca/students. This information is not available by telephone. No student will be allowed to enter an examination later than one hour after it has started.

1.6.7.2 Final Examinations: Deferred Examinations

If, for serious reasons such as illness or family affliction, you have not written one or more examinations, you may receive the permission of your Faculty Student Affairs Office or Service Point (for students in the Faculties of Arts or Science) upon providing supporting documentation to defer the examination to the next deferred/supplemental examination period, except for courses administered by the Faculty of Engineering (where students write the examination

the next time the course is given); see [section 1.6.7.2.1: Deferred Examinations: Faculty of Engineering](#). You should provide supporting evidence such as an appropriate medical report as soon as possible. You should be aware that the University will only defer examinations for compelling reasons, verified and accepted by the Student Affairs Office or Service Point.

You must apply for deferred examinations on [Minerva](#) if you are in one of the following faculties: Agricultural and Environmental Sciences, Arts, Education, Engineering, Religious Studies, Science, School of Physical and Occupational Therapy, School of Social Work, and the School of Continuing Studies. If you do not belong to one of the above faculties, consult your faculty for application procedures.

The final application deadline in Agricultural and Environmental Sciences, Arts, Science, Education, Engineering, Management and the School of Continuing Studies for deferred examinations is January 15 (for Fall term courses), and May 15 (for Winter term courses and courses that span the Fall and Winter terms).

If your request is approved, an L will appear in place of a grade in those courses. The grade you obtain on the deferred examination will replace the grade of L on your official transcript.

If you receive a grade of D, F, J, or U in a course after a deferred examination, no supplemental examinations will be available. You must either re-register in the same course the following term or in an approved course substitute.

For Summer term courses, check with your Student Affairs Office on the availability and restrictions of deferred examinations.

If you have already written an examination, you cannot later request for the exam to be deferred. You should consult your Student Affairs Office regarding the availability of supplemental examinations.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Submit your supporting documents to Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.



Note for the Faculty of Engineering: You should refer to [section 1.6.7.2.1: Deferred Examinations: Faculty of Engineering](#) for more information on the Faculty of Engineering policies on deferred exams.



Note for the Faculty of Law: You should refer to www.mcgill.ca/law-studies/information/exams/#DEFSUP for more information on the Faculty of Law policies on deferred exams.



Note for the Schulich School of Music: A Music student who has not cleared a grade of L by mid-May is ineligible for scholarships.

If you are not granted deferred status, you will receive a grade of J in the course, which will count as a failure in the TGPA and CGPA. You may, however, be allowed to write a supplemental examination. **Please note that there are no supplemental exams in Agricultural and Environmental Sciences or Management courses. For the Faculty of Engineering, supplemental exams are exceptionally offered for some Science, Humanities, and Social Sciences courses. For a list of these courses, see the Faculty of Engineering website (www.mcgill.ca/engineering).**

1.6.7.2.1 Deferred Examinations: Faculty of Engineering

A detailed letter in support of the application must be entered in the "reason(s) for deferral" section of the application on Minerva.

You must submit supporting documentation to the Engineering Student Centre (Frank Dawson Adams Building, Room 22) within one week of the missed examination.

For requests due to medical reasons, a deferral is granted only if the nature of the illness is serious enough to justify absence from the examination. The date of the missed exam and the nature of the illness must be clearly indicated on the medical certificate. Medical certificates stating "medical reasons" and illegible documents will not be accepted.

If you miss your examination for reasons other than medical reasons, you must submit supporting documentation from the appropriate authority, which covers the date of the missed exam, where applicable.

You are required to frequently verify the status of your deferred application on Minerva to determine whether any additional information is required by the Student Affairs Office, Engineering Student Centre.

You will receive an email notification once a deferred examination application decision has been made.

Rules and regulations:

- Deferred exams for courses administered by the Faculty of Engineering are written during the final examination period the next time the course is offered, excluding the summer term. The final examination schedule is available at www.mcgill.ca/students.
- The following courses are administered by the Faculty of Engineering: CHEM 233, COMP 208, EPSC 221, MATH 262, MATH 263, MATH 264, MATH 270, MATH 271, MATH 363, MATH 381, and PHYS 271.
- If taking the deferred exam will delay your graduation, you should indicate this by adding a comment in your deferral application on Minerva. The Student Affairs Office may grant an earlier deferral exam in such cases, and will notify you via your McGill email.
- For each deferred examination that is approved, an L (deferred) grade will appear on your record, but will not appear on official transcripts after the final grade has been determined. The grade you will receive in the deferred examination will replace the grade that you would have received in the original final exam. An L grade will be replaced by a J if you miss the NEXT deferred or regular examination in the course, whichever happens first.
- The format of the deferred examination will not necessarily be identical to the original final examination of the same course. You are responsible for contacting the professor if you require information about the deferred examination format.
- If you have written your final examination, you may not request that the exam be deferred.

- You are not permitted to redo any portion of the coursework such as assignments, projects, labs, midterms, quizzes, etc. (i.e., all grades previously obtained will be calculated with the final grade of the deferred examination to determine the final grade).
- Once a deferred exam has been granted, you may write no more than six final examinations per term. This will give you sufficient time during the term and the examination period to properly prepare for your deferred examination(s).
- The Faculty of Engineering does not grant extensions to deferred examinations.

1.6.7.2.1.1 Non-Engineering Courses

Deferred examinations for courses administered by the following faculties are offered during the supplemental/deferred examination period:

- Faculty of Arts
- Faculty of Agricultural and Environmental Sciences
- Faculty of Education
- Desautels Faculty of Management
- Faculty of Religious Studies
- Faculty of Science (courses administered by the Faculty of Science, including Year 0 math and science courses)
- School of Social Work

The supplemental/deferred examination schedule is available at www.mcgill.ca/students/exams/supdefer.

1.6.7.2.1.2 School of Continuing Studies Courses

Deferred exams for courses administered by the School of Continuing Studies are offered during the next term's final examination period. The final examination schedule for School of Continuing Studies courses is available at www.mcgill.ca/conted/studentres/records/exams.

1.6.7.2.1.3 Summer Studies

For courses offered in the Summer term, you must submit a written request (with supporting documentation) for deferred examinations to the Engineering Student Centre (FDA 22) no later than four days after the date of the missed final examination.

For courses administered by the Faculty of Engineering, the deferred examination is written during the final examination period the next time the course is offered. For non-Engineering courses, the date will be determined by Summer Studies and you will be notified via your McGill email.

The final examination schedule for Summer Studies courses is available at www.mcgill.ca/summer/finalexams.

1.6.7.3 Final Examinations: Reassessments and Rereads

In accordance with the *Charter of Students' Rights*, and subject to its stated conditions, you have the right to consult any written submission for which you have received a grade. You also have the right to discuss this submission with the examiner. If you want to have a formal final examination reread, you must apply in writing to your Student Affairs Office (the Associate Dean, Student Affairs, in the Faculty of Agricultural and Environmental Sciences and in the Schulich School of Music), or Service Point if you are a student in the Faculty of Arts or the Faculty of Science. You should check with that office regarding application deadlines for formal rereads.

1.6.7.3.1 Reassessments and Rereads: Faculties of Arts and Science (including B.A. & Sc.)

There are two recognized types of impartial reviews, i.e., reassessments or rereads:

- reassessment of coursework (term papers, mid-terms, assignments, quizzes, etc.)
- reread of a final exam

In both cases, rather than recorrect the work and then grade it as they would have done themselves, reviewers assess the **appropriateness** of the original grade based, for example, on the application of the grading key to the student's work. If a grade is deemed unfair, it is changed, whether the new grade is higher or lower than the original, i.e., the reviewer's grade takes precedence over the original grade.

1.6.7.3.1.1 Reassessment of Coursework

These reassessments are administered and conducted solely by the units involved according to procedures specified by the units and made available to staff and students. Requests for such reassessments must be made within 10 working days after the graded material(s) has been made available for students to view. Reassessments should normally be completed within 20 working days of the request.

1.6.7.3.1.2 Rereads of Final Examinations

These rereads are administered by Service Point, but conducted by the units involved. You must make a request to Service Point by March 31 for courses in the Fall term, and by September 30 for courses in the Winter or Summer terms (these deadlines are strictly enforced and no requests will be accepted once they have passed). You are assessed a fee of \$35 for such rereads. It is strongly recommended, but not required, that you consult with the instructor of the course before requesting a reread of a final exam.

Reassessments and rereads in courses not in the Faculties of Arts and Science are subject to the deadlines, rules, and regulations of the relevant faculty.

1.6.7.3.2 Reassessments and Rereads: Faculty of Law

For information on the Faculty of Law's grade review regulations (rereads of failed examinations, rereads of failing assignments, and review of final evaluations) refer to: www.mcgill.ca/law-studies/information/exams/#REVIEWS.

1.6.7.3.3 Rereads: Faculty of Engineering

You can request a formal reread of a final examination once you have discussed it with your instructor. You must complete a *Request for a Reread of a Final Exam* form and submit it to the Student Affairs Office, Engineering Student Centre.

The following regulations apply:

- You may request rereads for only one course per term, unless you obtain permission from the Student Affairs Office, Engineering Student Centre.
- Grades may be either raised or lowered as the result of a reread.
- A \$35 fee for each reread will be assessed directly to your McGill account if the result remains the same or is lowered. If the grade is raised, there is no charge.

Reread application deadlines:

- Fall courses: March 31
- Winter courses: July 31
- Summer courses: November 30

Non-Engineering courses: Rereads in courses not in the Faculty of Engineering are subject to the deadlines, rules, and regulations of the relevant faculty.

1.6.7.4 Additional Work: Faculty of Science (including B.A. & Sc.)

Instructors of courses that include graded, written term work may choose to provide the option of additional work to eligible students. The following conditions apply:

- if there is an option for additional work, it must be announced in the course outline at the beginning of the course;
- additional work involves revising one or more previously submitted papers or submitting new written work to replace the original work;
- you must be in Satisfactory or Probationary Standing;
- you must have received a final grade of D, J, F, or U in the course;
- the weight of the additional work will be equal to the weight given to the work that was revised or replaced when the original grade was submitted;
- the grade resulting from the revised or additional work will be recorded as a supplemental grade;
- the supplemental result will not replace the grade originally obtained, which is used in calculating the GPA; both the original grade and the supplemental grade will count in calculating the CGPA;
- in courses in which both a supplemental examination and additional work are available, you may choose the additional work or the examination or both; where both are written, only one supplemental grade will be submitted, reflecting grades for both the supplemental examination and the additional work;
- additional work in courses outside the Faculty of Science (including B.A. & Sc.) is subject to the deadlines, rules, and regulations of the relevant faculty.



Note for the Faculty of Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.6.7.5 Supplemental Examinations

To write a supplemental examination for a course, you must submit a request on Minerva (www.mcgill.ca/minerva) by going to *Student Menu > Student Records Menu > Supplemental Exam Application*.

The following rules and conditions apply:

- You must be in Satisfactory or Probationary Standing;
- You must have received a final grade of D, F, J, or U in the course;
- A \$35 non-refundable fee for each supplemental exam application is assessed at the time of application and charged directly to your McGill account;
- Only one supplemental examination is allowed in a course;
- Supplemental examinations are available for most courses given in the Faculties of Arts, Science, Education, Religious Studies, and Social Work;
- Supplemental examinations are not available for courses administered by Agricultural and Environmental Sciences, Management, Music, or Engineering;
- Special permission is required if you want to write supplemental exams totalling more than 8 credits;
- The format of the supplemental examination (e.g., multiple-choice or essay questions) will not necessarily be the same as the final examination, so you should consult the instructor about the format;
- The supplemental result may or may not include the same proportion of class work as did the original grade; the instructor will announce the arrangements to be used for the course by the end of the Course Change period;
- The supplemental grade will not replace the grade originally obtained, which is used in calculating the GPA; both the original mark and the supplemental result will be calculated in the CGPA;
- For courses in which both a supplemental examination and additional work are available, you may choose the additional work, or the examination, or both; where both are written, only one supplemental mark will be submitted, reflecting marks for both the supplemental examination and the additional work;
- There are no supplemental examinations for Summer courses;
- Additional credit will not be given for a supplemental exam where the original grade for the course was a D and you already received credit for the course;
- No supplemental examinations are available if you fail to achieve a satisfactory grade in a course with a deferred examination;
- Supplemental examinations in courses outside your faculty are subject to the deadlines, rules, and regulations of the relevant faculty.

You must frequently verify the status of your supplemental exam application on Minerva for any additional information required by your Student Affairs Office. Once your application has been approved, you will receive a confirmation email at your McGill email address.

If you register for a supplemental examination but find yourself unprepared for it, you should not write the exam; except for the loss of the application fee, there is no penalty for missing a supplemental examination. You should consult your Student Affairs Office for further information. It is important that you also see a faculty adviser to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

You must verify the date and time of the supplemental examination, and make yourself available to write the exam. Dates can be found at www.mcgill.ca/students/exams/dates.



Note for the Faculties of Arts and Science (including B.A. & Sc.): It is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.



Note for the Faculty of Engineering: Supplemental examinations are available for courses in the Faculty of Science (including Year 0 (freshman) math and science courses) and the Faculty of Arts. Supplemental examinations are not available for the following Engineering courses: CHEM 233, COMP 208, EPSC 221, MATH 262, MATH 263, MATH 264, MATH 270, MATH 271, MATH 363, MATH 381, and PHYS 271.



Note for the Faculty of Law: Regular supplemental examinations are available to a student who has failed a course, but who is not required to withdraw from the Faculty. Regular supplemental examinations may be written in up to two courses that do not exceed a total of seven credits together, or in any one course even if it exceeds seven credits. Supplemental examinations are written at the Law Faculty in the month of August. For more information, see *Supplemental Examinations* at www.mcgill.ca/law-studies/information/exams.

1.6.8 Examinations: Invigilation (Exams from Other Universities)

Upon request, McGill will act as proctor for exams from other universities or professional accreditation associations. Exams are scheduled on weekdays at 10:00 a.m., and cannot be scheduled on evenings, weekends, statutory holidays, or McGill holidays. This service is limited to written and paper-based exams.

1.6.8.1 The Cost

The cost for invigilation and administration is \$80 per student, per exam to be returned in Canada; and \$100 for each international exam. Unless otherwise specified by the home institution, you are expected to pay by debit card (bank card) or cheque on the day of the exam.

Any student/institution wishing to have the exam returned by courier/express post must provide a prepaid envelope.

1.6.8.2 Setting Up

Information for students: please confirm the exam date at least two weeks in advance of the scheduled exam and provide a telephone number and email address. The meeting point with the invigilator is at Enrolment Services—see address below. If your plans change and you decide not to write the exam, you must contact Enrolment Services as soon as possible.

1.6.8.3 Mailing address for exams

Exams and examination booklets, along with full instructions, should be sent to:

McGill University
Enrolment Services, Room MS - 72
3415 McTavish Street
Montreal (QC) H3A 0C8
Attention: Proctor Exams

Meeting point for students on the day of the exam:

McGill University
Service Point
3415 McTavish Street
Montreal (QC) H3A 0C8

Telephone: 514-398-2207
Email: proctor.es@mcgill.ca
Website: www.mcgill.ca/students/exams/proctor

1.7 Internships, Exchanges, and Co-op Programs

1.7.1 Internships and Co-op Programs

Several faculties at McGill offer undergraduate students the opportunity to participate in an internship or co-op program.

- Faculty of Agricultural and Environmental Sciences students: See *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Agricultural and Environmental Sciences* > *Undergraduate* > [section 2.5.1: Internship Opportunities and Co-op Experience](#).
- Faculty of Arts students: See the Arts Internships website: www.mcgill.ca/arts-internships.
- Faculty of Engineering students: See *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Engineering* > *Undergraduate* > [section 6.11: Engineering Internship Program](#). The Department of Mining and Materials Engineering also offers co-op programs in Mining Engineering and Materials Engineering.
- Faculty of Law students: For information on Human Rights internships, see: www.mcgill.ca/humanrights/clinical/internships.
- Desautels Faculty of Management students: See *Programs, Courses and University Regulations* > *Faculties & Schools* > *Desautels Faculty of Management* > *Undergraduate* > [section 10.6.6: Course Overlap](#).
- Faculty of Science students: See *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.10.5: Internship Programs – Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#).

1.7.2 Exchange Programs

For information on Exchange Programs, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.8: Exchange Programs](#).



Note for Arts students: Further information on exchanges and studying away may be obtained from the Arts OASIS website at www.mcgill.ca/oasis.



Note for Engineering students: For further information, contact the Faculty of Engineering Student Affairs Office in the Engineering Student Centre, and see www.mcgill.ca/engineering/student/sao/exchange.



Note for Law students: Students should consult www.mcgill.ca/law-studies/information/exchange for the eligibility criteria.



Note for Management students: See also *Programs, Courses and University Regulations* > *Faculties & Schools* > *Desautels Faculty of Management* > *Undergraduate* > [section 10.4.6: International Student Exchange Program](#).



Note for Science and B.A. & Sc. students: Further information may be obtained from the SOUSA website at www.mcgill.ca/science/student/general.

1.7.3 Field Studies

For information on Field Studies, see *Programs, Courses and University Regulations* > *Faculties & Schools* > [Field Studies](#).

1.7.4 Mobility Award

The purpose of the Mobility Award is to encourage students to study abroad as part of their McGill degree program by defraying part of the cost of this experience. Complete information on this award is available on McGill's [International Education](#) website.

1.7.5 Study Abroad Opportunities

For information on Study Abroad, refer to *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > [section 8.1: Opportunities for Field Study and Study Abroad](#), or see www.mcgill.ca/students/international.

1.8 Scholarships and Student Aid

The Scholarships and Student Aid Office offers a complete range of merit and need-based awards for entering and in-course undergraduate students. As well, the office administers all federal, provincial, and U.S. government student aid programs. For information and links to government websites, see www.mcgill.ca/studentaid. Comprehensive information concerning all undergraduate awards also appears in the *Undergraduate Scholarships and Awards Calendar* available at www.mcgill.ca/students/courses/calendars or from the Scholarships and Student Aid Office.

1.8.1 Entrance Awards for McGill Students

Undergraduate Entrance Scholarships are available to students entering McGill University for the first time in a full-time undergraduate degree program.

You should consult www.mcgill.ca/studentaid/scholarships/prospective for details. Highlights include:

- Entrance Scholarships are entirely merit-based; financial need is not considered.
- Value ranges from \$3,000 to \$10,000.
- There are two types: the One-Year, where eligibility is based solely on academic achievement; and the renewable Major, based on academic achievement as well as leadership qualities in school and/or community activities.

1.8.1.1 Application Procedures

- **One-Year Scholarships:** by applying to McGill, all eligible applicants are automatically considered. No separate application is required.
- **Major (renewable) Scholarships:** candidates can apply on the web after their application for admission has been submitted and they have received an email acknowledgment.
- You must ensure that you send in all required supporting documentation.
- Dentistry, Law, Medicine, and Music applicants should inquire at their own faculty's admissions office regarding availability of entrance awards.
- If you hold a renewable scholarship from the Committee on Enrolment and Student Affairs, the scholarship is renewed only if you meet the McGill standards for renewal. See www.mcgill.ca/studentaid/scholarships/prospective/regulation.

1.8.1.2 Need-Based Entrance Financial Aid

This program offers financial aid to students from families of modest means who require assistance to attend McGill. Upon acceptance to the University, first-year, undergraduate degree students can apply for an entrance bursary on Minerva. The value of the entrance bursary depends on the student's degree of need. Since financial need is the primary factor in the selection of aid recipients, applicants for this program are expected to apply for government student aid programs where eligible. For more information, see www.mcgill.ca/studentaid.

1.8.2 In-Course Awards for McGill Students

Faculty scholarships and awards are decided by the faculty scholarships committees. You should consult the appropriate section of the *Undergraduate Scholarships and Awards Calendar* for regulations and information concerning these awards at www.mcgill.ca/students/courses/calendars, or the following website: www.mcgill.ca/studentaid/scholarships/current.

- Most undergraduate scholarships and awards are granted on the basis of the combined GPA for the Fall and Winter terms (i.e., your sessional GPA), or a ranking in the top 5% of the faculty, subject to the faculty's budget. Applications are not required unless specifically indicated in the terms of an award.
- To be considered for in-course awards and/or the renewal of entrance scholarships, you must complete at least 27 graded credits in the regular academic year. Courses completed under the Satisfactory/Unsatisfactory (S/U) option, and Summer courses, are not considered. Program content and number of credits may also be considered.
- Up to a maximum of 6 credits from courses taken at other Quebec universities through the Inter-University Transfer (IUT) agreement can be counted toward the requirements for scholarship renewal or for consideration for other academic awards. Eligibility is based on all courses taken during the regular academic year, on both the McGill GPA and the global GPA, which includes the IUT credits.
- You should review all regulations regarding in-course awards by consulting www.mcgill.ca/studentaid/scholarships/current/eligibility.
- A maximum of the top 10% of students in each faculty are named to the Dean's Honour List. This designation is based on the combined GPA for the Fall and Winter terms (i.e., your sessional GPA) and the minimum required combined GPA is determined by each faculty. It is an official University recognition of the student's achievements and appears on the transcript. There is no monetary reward.
- All awards, with the exception of prizes, are credited to the tuition fee accounts of students for the following academic year. Students must be registered on a full-time basis to receive the funds.
- If you hold a renewable scholarship from the Committee on Enrolment and Student Affairs, it will *only* be renewed if you meet the McGill standards for renewal. See www.mcgill.ca/studentaid/scholarships/prospective/regulation.

1.8.2.1 In-Course Financial Aid

The University offers an In-Course Financial Aid program to full-time undergraduate degree students on the basis of demonstrated financial need. This aid includes bursaries, short- and long-term loans, and a Work Study Program. To be considered for McGill financial aid, the University recommends that applicants apply for the maximum government student assistance for which they are eligible. The Scholarships and Student Aid Office oversees all provincial, federal, and U.S. student aid programs and disburses government funds.

Student Aid Counsellors are available for consultation on an individual basis to provide advice on budgeting and debt management, and to award financial assistance to needy and deserving students. For more information, see www.mcgill.ca/studentaid.

1.8.3 Work Study Program

The Work Study Program provides students with financial assistance through part-time employment on campus. Students are accepted into the program based primarily on financial need, though academic standing is also considered. There are a variety of Work Study positions available, ranging from clerical work in an administrative office to research with a professor. In addition to helping you cope with your financial obligations, Work Study also provides practical work experience that may enhance future employment opportunities.

Further information is available on McGill's Work Study website at www.mcgill.ca/studentaid/workstudy and at the Scholarships and Student Aid Office:

William & Mary Brown Student Services Building
3600 McTavish Street, Suite 3200
Montreal, QC H3A 1Y2 Canada

Telephone: 514-398-7297
Email: work.study@mcgill.ca
Website: www.mcgill.ca/studentaid/workstudy

1.8.3.1 Student Aid

Telephone: 514-398-6013
Email: student.aid@mcgill.ca
Website: www.mcgill.ca/studentaid

1.8.3.2 Scholarships

Telephone: 514-398-6014
Email: scholarships@mcgill.ca
Website: www.mcgill.ca/studentaid/scholarships

1.9 Graduation

In order to graduate, you must complete faculty and program requirements. **It is your responsibility to meet all faculty and program requirements before graduation.**

At the time of graduation from an undergraduate degree, you must be in Satisfactory Standing with a minimum CGPA of 2.00.

You should contact your adviser (Music students should contact the Senior Student Adviser; graduate students should contact their department) early in the graduating year to make sure you will meet your program requirements by graduation time. For contact information on advisers, see www.mcgill.ca/students/advising/advisordirectory.

Minimum Residency Requirement

The total number of McGill credits required to graduate is known as the minimum residency requirement. You must successfully complete a minimum of 60 McGill credits in order to obtain a McGill undergraduate degree. Some programs have specific requirements on the type of credits that must be completed at McGill. For example, two-thirds of all program requirements must be completed at McGill. For specific information refer to your faculty section of this publication.

Students completing a second undergraduate degree at McGill must successfully complete a minimum of 60 McGill credits to obtain their degree. You should check with your Faculty adviser for any conditions applicable to the McGill credits required toward your degree.

Graduate students should refer to *Programs, Courses and University Regulations > Faculties & Schools > Graduate > Program Requirements* for information on minimum residency requirements for graduate programs.

1.9.1 Graduation Honours: Dean's Honour List

If you are graduating with an undergraduate degree, you may be awarded the designation Dean's Honour List under the following conditions:

1. you have completed a minimum of 60 McGill credits toward your degree; and
2. you are in the top 10% of the faculty's graduating class of students; this calculation is based on the CGPA.



Note for transfer students: This designation may be withdrawn if your CGPA at another university or in another faculty at McGill is not comparable to the CGPA earned in your graduating faculty.

1.9.2 Graduation Honours: Distinction

If you are graduating with an undergraduate degree, you may be awarded the designation Distinction under the following conditions:

1. you have completed a minimum of 60 McGill credits toward your degree; and
2. you are in the top 25%, but below the top 10%, of your faculty's graduating class of students; this calculation is based on the CGPA.



Note for transfer students: This designation may be withdrawn if your CGPA at another university or in another faculty at McGill is not comparable to the CGPA earned in your graduating faculty.



Note: The Faculties of Education, Dentistry, Law, Medicine, and the School of Nursing, as well as the School of Continuing Studies do not assign the designation of Distinction to graduating students.



Note: The designation of Great Distinction is no longer awarded at graduation. Prior to September 2009, Distinction and Great Distinction were awarded at graduation according to faculty-specific regulations. You can find these rules in the faculty chapters of the *2008–2009 Undergraduate Programs Calendar* or any earlier version at www.mcgill.ca/students/courses/calendars.

1.9.3 Graduation Honours: Faculty of Science Dean's Multidisciplinary Undergraduate Research List

The Dean's Multidisciplinary Undergraduate Research List recognizes Bachelor of Science (B.Sc.) students who have participated in substantial and broad undergraduate research. To be placed on the Dean's Multidisciplinary Undergraduate Research List at graduation time:

- you must have completed at least 9 credits of research-based courses, taken for a letter grade,
- where qualifying courses are either specified in the list of approved research courses (see www.mcgill.ca/science/research/ours/researchcourses),
- or are approved on a case-by-case basis by the Faculty of Science.

Furthermore, considering all qualifying research-based courses on your transcript at graduation time:

- at least one course, worth at least 3 credits, must be from a different unit than the other research-based courses; and
- every qualifying course must have been completed with a grade of C or above; and
- the average GPA over all qualifying courses must be 3.0 or above.

If these requirements are met, the mention "Dean's Multidisciplinary Undergraduate Research List" will be recorded on your transcript at graduation time.

Application

No application is necessary if you have taken courses from the approved list; all B.Sc. graduating students' records are considered by the Office for Undergraduate Research in Science.

However, if you have taken a research course *not* already on the approved list, and wish for this course to be counted toward the Dean's Multidisciplinary Undergraduate Research List, you must apply. Qualifying courses may be offered either within the Faculty of Science or outside. For information on how to apply, please contact the Office for Undergraduate Research in Science at least four months prior to graduation (e.g., February 1, for June graduation; July 1, for November graduation; August 1, for February graduation).

1.9.4 Graduation Honours: Honours and First-Class Honours for Faculties of Arts and Science (including B.A. & Sc.)

As a graduating student registered in an Honours program, you may be recommended for *Honours* or *First-Class Honours* by your department(s) to the Faculty, under the following conditions only:

- you must complete all requirements imposed by the department;
- for *Honours*, the CGPA at graduation must be at least 3.00;
- for *First-Class Honours*, the CGPA at graduation must be 3.50 or better;
- students in a Joint Honours program must satisfy the above criteria for both Joint Honours components;
- some departments have additional requirements which must be met before you are recommended for *Honours* or *First-Class Honours* (see the departmental entries).

Students in an Honours program whose program GPA or CGPA is below 3.00, or who did not satisfy certain additional program requirements, must consult their adviser to determine if they are eligible to graduate in a program other than Honours.

1.9.5 Apply to Graduate

Most undergraduate students and non-thesis graduate students (master's, certificates, diplomas) must use Minerva (www.mcgill.ca/minerva) to apply to graduate (go to *Student Records > Apply for Graduation for Your Primary Curriculum*). It is your responsibility to inform McGill of your intention to graduate. You need a minimum residency requirement of 60 credits at McGill to qualify for a McGill undergraduate degree. For more information, see [section 1.9: Graduation](#). The minimum CGPA required to graduate is 2.00, and you must be in Satisfactory Standing.

The Application for Graduation is available on Minerva when you register for your final year (e.g., U3 or U4), except if you are in the Faculty of Medicine or Faculty of Dentistry, where you are automatically flagged for graduation in your final year. For more information on how to apply on Minerva, go to www.mcgill.ca/students/graduation/applying.

Once you apply to graduate, you are authorizing the University to include your name in the Convocation program. If you want your name to be omitted from this publication you must send an email to Enrolment Services at studentrecords@mcgill.ca by March 15 for Spring convocation, and September 15 for Fall convocation.

1.9.5.1 Deadlines:

- Fall term graduation (courses completed in December; transcript will indicate "Degree Granted" in February; Spring convocation): You must apply on Minerva by the end of November.
- Winter term graduation (courses completed in April; transcript will indicate "Degree Granted" in May; Spring convocation): You must apply on Minerva by the end of February.
- Summer term graduation (courses completed by August; transcript will indicate "Degree Granted" in October; Fall convocation): You must apply on Minerva by the end of March.

If you miss one of these deadlines, contact your Faculty Student Affairs Office immediately.



Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see www.mcgill.ca/students/advising.

1.9.6 Graduation Approval Query

As a graduating student, you can view the status of your graduation record on Minerva (www.mcgill.ca/minerva) during the Faculty review and approval process (go to *Student Records > Graduation Approval Query*). The *Graduation Approval Query* form becomes available to graduating students approximately three to four weeks before the *Degree Granted* notation is updated on their records.

If you have met all requirements for graduation, your student record on Minerva will display the *Degree Granted* notation at the appropriate time:

- Late February, for Fall term graduation (Convocation in Spring)
- Late May, for Winter term graduation (Convocation in Spring)
- Late October, for Summer term graduation (Convocation in Fall)

See www.mcgill.ca/students/graduation/convocation for information regarding convocation ceremonies.

1.9.7 Replacing a Diploma

1.9.7.1 Required Documents

Replacing a lost diploma

You must provide a written request indicating that your original diploma was lost. Your request should include your full name, address, phone number, and date of birth, as well as your degree and the year it was granted. You must clearly state your reason for requesting a replacement.

Replacing a damaged diploma or modifying your name

You must provide your original diploma. For name changes, enclose a photocopy of your of birth certificate, change of name certificate, marriage certificate, proof of divorce, or other legal documents that support your name change, corrections, additions, or deletions. Also include a letter listing your full name, student number, address, phone number, and date of birth. You must state your reason for requesting a replacement diploma, and clearly indicate any changes you want made.

1.9.7.2 Making Your Request

There are two ways to submit a request:

1. Mail a written request to [Service Point](#), along with the required supporting documents, and a certified cheque or money order in the amount of CAD\$120 (includes trackable mail delivery) payable to McGill University.
2. Come to [Service Point](#) in person with the required documents. You can pay the replacement fee of CAD\$120 (includes trackable mail delivery) via debit card. If you choose this option, please allow for appropriate delays in diploma printing and mailing time.



Note: Requests made on behalf of a student must be accompanied by a signed letter of authorization from the student.

1.9.7.3 Certified Copies and Translations

Enrolment Services will certify and translate copies of your diploma at no charge. To make a request, assemble the documents below and either apply in person at [Service Point](#) or submit your request by mail or email (servicepoint@mcgill.ca). For mail/email requests, please allow at least 5–7 working days of processing time plus appropriate mailing time.



Note: McGill provides only one original diploma per student.

Requesting certified copies of your diploma

McGill can provide you with certified copies of your diploma as required; simply provide us with, or attach to your email:

- a photocopy of your original diploma on 8.5" x 11" paper in landscape mode, making certain to reduce it so that all seals and signatures are visible;
- for mail/email requests: a cover letter* bearing your signature, full name, student number (if available), address, phone number, and number of copies required.

* If originating from a McGill email account, a cover letter is not required.

Requesting a translation of your diploma

McGill can provide you with certified English or French translations of your diploma, as required.

For mail/email requests, please provide us with, or attach to your email:

- a cover letter* bearing your signature, full name, student number (if available), address, phone number, the degree to be translated, and number of copies required.

* If originating from a McGill email account, a cover letter is not required.

1.9.8 Aegrotat Standing and Degree at McGill University

Aegrotat standing is awarded in rare cases where a student, based on serious medical or similar evidence, is unable to complete course requirements within a reasonable time, or at all.

At McGill, this designation is currently applied toward the end of a student's degree program resulting in the awarding of an aegrotat degree. An aegrotat indicator of 'Y' at graduation signifies that a student was awarded such a degree. An aegrotat degree is awarded only to students in good standing who have been unable to complete their degree due to special circumstances. Information on this degree designation is included only in the convocation program, and not on the transcript.

Aegrotat standing is rarely granted at McGill University. A formal request must be submitted to the Dean of the faculty in which the student is registered during the graduating year. The approval of the Dean and the Deputy Provost, Student Life and Learning, is necessary to grant this status.

1.10 Admission to Professional and Graduate Studies

If you intend to proceed into Dentistry, Law, or Medicine, consult the faculties concerned about their prerequisites for admission.

1.10.1 Language Requirements for Professions

Quebec law requires that candidates seeking admission to provincially recognized professional corporations* must be able to communicate verbally and in writing in French. To demonstrate a working knowledge of French, the professional corporation requires one of the following:

- Evidence that you have completed three years of full-time instruction in a French post-primary school
- A certificate that shows you completed your secondary education in Quebec in 1986 or later
- Successful completion of a written examination set by Quebec's *Office québécois de la langue française* (OQLF). See below for more information.

If you are a registered student and are within two years of graduating with a degree that will give you access to a professional corporation, you can write the OQLF examination. You should contact Enrolment Services for an application form. Examinations take place every three months and may be attempted an unlimited number of times. Priority is given to students closest to graduation.

More information may be obtained from the *Office québécois de la langue française*, 125 Sherbrooke Street West, Montreal, Quebec, H2X 1X4. Telephone: 514-873-6565. Website: www.oqlf.gouv.qc.ca.

If you need to acquire a functional level of proficiency in French, you can take courses from either the French Language Centre (Faculty of Arts www.mcgill.ca/flc) or the School of Continuing Studies, 688 Sherbrooke Street West, telephone: 514-398-6200 (www.mcgill.ca/conted).

If you are already strong in French and want to maintain or improve your proficiency, you may consider taking courses in the Department of French Language and Literature, Faculty of Arts or the School of Continuing Studies.



Note: You cannot apply non-credit language courses, and certain credit language courses, completed at the School of Continuing Studies to program/degree requirements. Consult your faculty for clarification.

* McGill degrees and diplomas currently give access to corporations regulating the activities of the following professional groups:

Professional Groups

Agrologists	Lawyers
Architects	Licensed General Accountants
Chartered Accountants	Nurses
Chartered Appraisers	Occupational Therapists
Chemists	Physicians
Dentists	Physiotherapists
Dietitians	Psychologists
Engineers	Social Workers
Geologists	Speech Therapists and Audiologists
Industrial Administration Accountants	Urbanists
Industrial Relations Counsellors	Vocational Guidance Counsellors

1.10.2 Graduate Programs

McGill University offers over 250 Doctoral and Master's degree programs in more than 85 fields of study. We award degrees in a full range of academic disciplines, and are committed to providing you with an excellent graduate education and a rewarding student experience.

Please see www.mcgill.ca/gradapplicants to learn about graduate programs, research, admission requirements, and funding opportunities. You can also view *Programs, Courses and University Regulations > Faculties & Schools > Graduate*.

1.11 Undergraduate Advising

McGill offers students access to a variety of advisers, mentors and counselors with different skills, expertise, and levels of authority. To help determine whether you need to speak to a faculty adviser, departmental/school adviser, professor/lecturer, or peer adviser, see [section 1.11.2: The Role of Student Advising](#) and [section 1.11.3: Types of Advising and Advisers](#).

1.11.1 Advising and the University Mission

The Mission Statement of the University expresses the commitment to offer students *the best education available*. An essential component of this is the advising process. Because advising takes place in many ways and locations at McGill, it is important that you learn about the different types of advisers (see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Undergraduate Advising > section 1.11.3: Types of Advising and Advisers*) and how they can help you reach your goals.

1.11.2 The Role of Student Advising

Your active participation in the advising process is essential for accessing the full range of academic opportunities during your studies. You must be proactive in seeking meetings with various advisers, professors, and counsellors to ensure that you receive the advice you need to formulate a personal plan of study and to meet your academic goals. While advisers are there to provide you with guidance, you are ultimately responsible for meeting your degree or diploma requirements. It is your responsibility to learn the rules and regulations of the University, your faculty, and your program. With your cooperation, advisers and counsellors will assist you throughout your undergraduate studies.

1.11.3 Types of Advising and Advisers

While at McGill, you have access to a variety of advisers, mentors, and counsellors who have different skills, expertise, and levels of authority. You can talk about your situation freely with your advisers; they will respect your wish for confidentiality. Typical types of advisers are described below. You should refer to your faculty's section of this publication for additional advising information specific to your degree program. Note that some academic matters require approval of more than one adviser, e.g., the faculty adviser and the department/school academic adviser.

Faculty Advisers are normally located in the Student Affairs Office of each faculty and are available throughout the calendar year ([section 1.11.6: Faculty Student Affairs Offices](#)).

Faculty advisers:

- are experts in the rules, regulations, and requirements pertaining to specific degree programs;
- provide ongoing advice and guidance on program selection, course registration, credit load, deadlines, and majors and minors;
- offer help managing academic situations during periods of personal, financial, or medical difficulties, by working with you to identify various possibilities and strategies for making informed decisions;
- communicate with other advisers within the University and, with your permission, serve as a direct link to other University resources;
- may assist you in planning for, and applying to, university exchange programs and may also provide, or direct you to, information about scholarships, awards, research fellowships, and opportunities within a given field;
- are a valuable source of information about the various resources available at McGill;
- offer support, guidance, and appropriate referral to help you manage academic situations during periods of personal, financial, or medical difficulties, and identify various possibilities and strategies for making informed decisions.

Department/School Academic Advisers are normally located closer to the offices of professors in your program and may only be available during specific times of the year (e.g., prior to registration for the next session or during the add/drop period) or during regularly scheduled office hours. If you are completing a major or minor in more than one unit, you will likely have an adviser in each unit. The departmental academic adviser may be either a professor or a member of the administrative staff. You should contact your department's administrative office to determine the identity and availability of your academic adviser. You should check your progress with your departmental academic adviser from time to time—and certainly before your final year ([section 1.11.5: Contact Information for Advising](#)).

Departmental academic advisers:

- guide you through course selection to meet the subject matter requirements of the major or minor;
- consider requests for course equivalencies, recommend prior approval for inter-university transfer credits, or explain the rationale for the design of a department/school program;
- may assist you in planning for, and applying to, university exchange programs, and may also provide, or direct you to, information about scholarships, awards, research fellowships, and opportunities within a given field;
- are a valuable source of information about the various resources available at McGill;
- can provide support, guidance, and appropriate referrals if you experience academic or personal difficulties while studying at McGill;
- are often responsible for confirming that you have met major or minor program requirements for graduation.

Professors/Lecturers may act in a voluntary capacity to mentor you as you progress through your program. The faculty adviser or department/school academic adviser may be able to help you identify a good resource person in your program.

Professors/lecturers:

- may provide advice on the latest trends in a specific field of study and make recommendations on related advanced readings;
- may discuss opportunities for a student research experience and help you connect with a professor or lecturer who best suits your interests or learning style;
- refer you back to the faculty adviser or departmental academic adviser for signatures and permission related to program requirements.

Peer Advisers are students who have been trained by faculty advisers or department/school academic advisers. They normally offer drop-in hours for advice on University life and will help you find the information you need in this publication or through other University resources. Peer advisers are only available in some faculties or departments.

1.11.3.1 Related Services

The First-Year Office (FYO) (Brown Student Services Building; www.mcgill.ca/firstyear) can help new students navigate their way through this publication and the information contained in the *Welcome to McGill* publication (www.mcgill.ca/newstudents). They help newly admitted students prepare for the course registration period on Minerva. To maximize this help, you are strongly urged to read the sections in the *Welcome to McGill* publication that apply to your faculty. The FYO staff are always available to provide advice and referrals to the many support mechanisms at McGill.

Counselling Service (Brown Student Services Building; www.mcgill.ca/counselling) has professional counsellors and psychologists who are available to discuss personal, academic, and career goals or problems. They provide individual counselling, therapy, psychoeducational workshops, and crisis intervention. A walk-in service is available.

Career Planning Service (CaPS) (Brown Student Services Building; www.mcgill.ca/caps) provides career education, guidance, and individual advising to help you in your search for permanent, part-time, or summer jobs and internships.

Enrolment Services (Service Point, 3415 McTavish Street, Montreal (QC) H3A 0C8; 514-398-7878; www.mcgill.ca/students/records) is the place to start if you have questions related to credits on entrance or Advanced Standing based on previous studies.

On the Macdonald campus, information is provided by the Student Affairs Office, Laird Hall, Room 106; www.mcgill.ca/macdonald.

1.11.4 Student-For-A-Day Program

If you visit our **Downtown campus** in October/November (Fall term) or February/March (Winter term), you can choose to sit in on a class that is open to visitors and experience McGill from a student's perspective.

You do not need to pre-register: consult the list of courses available at www.mcgill.ca/undergraduate-admissions/introducing-mcgill/visit-mcgill/student-day, and select the courses you wish to attend. Pick up your Student-For-A-Day pass at the Welcome Centre on the day of your visit. Please note that only 100-level and 200-level lectures are available. For further information, contact the Welcome Centre (514-398-6555).

If you visit our **Macdonald campus**, you can participate in the Student-For-A-Day program that provides a total immersion in the Macdonald experience. Prospective students tour the campus, sit in on classes, meet professors and students, and visit labs, facilities, and residences. For further information, please contact the Macdonald Campus Student Affairs Office at studentinfo.macdonald@mcgill.ca or at 514-398-7925. Tours can be booked directly at: <https://mcgillinmind.mcgill.ca/mcgill/campustours>.

1.11.5 Contact Information for Advising

In general, contact your Faculty Student Affairs Office if you have any questions on programs.

1.11.6 Faculty Student Affairs Offices

Faculty of Agricultural and Environmental Sciences

Telephone: 514-398-7925
Email: studentinfo.macdonald@mcgill.ca
Website: www.mcgill.ca/macdonald

Faculty of Arts

Office of Advising and Student Information Services (OASIS)
Telephone: 514-398-1029
Newly admitted students email: newstudentadvising.arts@mcgill.ca
Returning students email: adviser.arts@mcgill.ca
Website: www.mcgill.ca/oasis

Students in U1 or above should also see the contact information for departmental academic advisers in [section 1.11.7: Contact Information for Departments, Schools, and Programs for Students in the Faculty of Arts \(or the B.A. & Sc. Degree\)](#).

Faculty of Education

Telephone: 514-398-7042
Email: sao.education@mcgill.ca
Website: www.mcgill.ca/edu-sao

Faculty of Engineering

McGill Engineering Student Centre (Student Affairs Office, Career Centre, and Peer Tutoring Service)	514-398-7257
Architecture	514-398-6702
Chemical Engineering	514-398-4494
Civil Engineering and Applied Mechanics	514-398-6345
Electrical and Computer Engineering	514-398-3943
General Engineering	514-398-7257
Mechanical Engineering	514-398-8070
Mining and Materials Engineering	Mining: 514-398-2215 Materials: 514-398-1040
Urban Planning	514-398-4075

Email: adviser@engineering.mcgill.ca or information@engineering.mcgill.ca
Website: www.mcgill.ca/engineering



Note: You are required to meet with an academic adviser before the start of classes. If you are admitted to Year 0 and you are seeking transfer credits, you are initially advised by the Student Affairs Office, Engineering Student Centre, followed by advising in your department. If you are admitted to Year 0 and you are not seeking transfer credits, or if you are admitted to Year 1, you should contact the department/school directly.

Faculty of Law

Telephone: 514-398-6608 or 514-398-3544
 Email: info.law@mcgill.ca
 Website: www.mcgill.ca/law-studies

Desautels Faculty of Management

Telephone: 514-398-4068
 Email: bcom.mgmt@mcgill.ca
 Website: www.mcgill.ca/desautels/bcom

Faculty of Religious Studies

Telephone: 514-398-4121
 Email: info.relgstud@mcgill.ca
 Website: www.mcgill.ca/religiousstudies

Schulich School of Music

Telephone: 514-398-4541
 Email: studentaffairs.music@mcgill.ca
 Website: www.mcgill.ca/music/current-students/undergraduate

Faculty of Science

Science Office for Undergraduate Student Advising (SOUSA)
 Telephone: 514-398-5442
 Email: newstudentadvising.science@mcgill.ca for newly admitted students only
 Email: adviser.science@mcgill.ca
 Website: www.mcgill.ca/science/student

Students in U1 or above should also see the contact information for departmental academic advisers in [section 1.11.10: Contact Information for Departments, Schools and Programs for Students in the Faculty of Science \(or the B.A. & Sc. Degree\)](#).

1.11.7 Contact Information for Departments, Schools, and Programs for Students in the Faculty of Arts (or the B.A. & Sc. Degree)

U0 students: Contact the Faculty of Arts Student Affairs Office for advising on the Arts Freshman program or the B.A. & Sc. Freshman program.

U1 students or any other year: Contact the department (school or program) directly for academic advising. You can find additional contact information in the relevant sections of this publication.

African Studies (program)

Telephone: 514-398-4804
 Email: ids@mcgill.ca
 Website: www.mcgill.ca/isid/undergraduate/afri

Anthropology (Department of)

Telephone: 514-398-1277
 Email: diane.mann@mcgill.ca
 Website: www.mcgill.ca/anthropology

Art History & Communication Studies (Department of)

Telephone: 514-398-1828
Email: undergrad.ahcs@mcgill.ca
Website: www.mcgill.ca/ahcs

Canadian Ethnic and Racial Studies (program)

Telephone: 514-398-6853
Email: morton.weinfeld@mcgill.ca

Canadian Studies (program)

Telephone: 514-398-8346
Email: adriana.goreta@mcgill.ca
Website: www.mcgill.ca/misc

Catholic Studies (program)

Telephone: 514-398-4400, ext. 09557
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/catholicstudies

Classics (program)

Telephone: 514-398-3975
Email: undergrad.history@mcgill.ca
Website: www.mcgill.ca/classics

Computer Science (School of)

Telephone: 514-398-7071, ext. 00739
Email: ugrad-sec@cs.mcgill.ca
Website: www.cs.mcgill.ca

East Asian Studies (Department of)

Telephone: 514-398-6742
Email: asian.studies@mcgill.ca
Website: www.mcgill.ca/eas

Economics (Department of)

Telephone: 514-398-3030
Email: undergraduate.economics@mcgill.ca
Website: www.mcgill.ca/economics

Education for Arts Students (program)

Telephone: 514-398-7042
Email: sao.education@mcgill.ca
Website: www.mcgill.ca/edu-sao/new/programs/minorseducation

Educational Psychology (program)

Telephone: 514-398-4248
Email: dean.thomson@mcgill.ca
Website: www.mcgill.ca/edu-ecp

English (Department of)

Telephone: 514-398-6550 or 398-6557
Email: sina.troiano@mcgill.ca
Website: www.mcgill.ca/english

Environment (School of)

Telephone: 514-398-4306
Email: kathy.roulet@mcgill.ca
Website: www.mcgill.ca/mse

French Language and Literature (Department of)

Telephone: 514-398-6883
Email: undergrad.littfran@mcgill.ca
Website: <http://litterature.mcgill.ca>

Geography (Department of)

Telephone: 514-398-4951 or 398-4111
Email: undergrad.geog@mcgill.ca
Website: www.geog.mcgill.ca

German Studies (program)

Telephone: 514-398-3650
Email: german.studies@mcgill.ca
Website: www.mcgill.ca/german

Hispanic Studies (program)

Telephone: 514-398-6687
Email: fernanda.macchi@mcgill.ca
Website: www.mcgill.ca/hispanic

History (Department of)

Telephone: 514-398-3975
Email: undergrad.history@mcgill.ca
Website: www.mcgill.ca/history

History and Philosophy of Science (program)

Telephone: 514-398-4400, ext. 09557
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/hpsc

Industrial Relations (program)

Telephone: 514-398-4400, ext. 09557
 Email: interdisciplinary.arts@mcgill.ca
 Website: www.mcgill.ca/indr

International Development Studies (program)

Telephone: 514-398-4804
 Email: ids@mcgill.ca
 Website: www.mcgill.ca/isid/undergraduate/intd

Islamic Studies (Institute of)

Telephone: 514-398-6077
 Email: info.islamics@mcgill.ca
 Website: www.mcgill.ca/islamicstudies

Italian Studies (program)

Telephone: 514-398-2833
 Email: matteo.soranzo@mcgill.ca
 Website: www.mcgill.ca/italian

Jewish Studies (program)

Telephone: 514-398-6543
 Email: stefka.iorgova@mcgill.ca
 Website: www.mcgill.ca/jewishstudies

Latin American and Caribbean Studies (program)

Telephone: 514-398-4804
 Email: ids@mcgill.ca
 Website: www.mcgill.ca/isid/undergraduate/lacs

Liberal Arts (program)

Telephone: 514-398-4400, ext. 09557
 Email: interdisciplinary.arts@mcgill.ca
 Website: www.mcgill.ca/langlitcultures/liberal-arts-program

Linguistics (Department of)

Telephone: 514-398-4222
 Email: dept.linguistics@mcgill.ca
 Website: www.mcgill.ca/linguistics

Mathematics & Statistics (Department of)

Telephone: 514-398-3800
 Email: ugrad.mathstat@mcgill.ca
 Website: www.math.mcgill.ca

Middle East Studies (program)

Telephone: 514-398-6077
Email: info.islamics@mcgill.ca
Website: www.mcgill.ca/mes

Music (program)

Telephone: 514-398-4535, ext. 6333
Email: dino.dutz@mcgill.ca
Website: www.mcgill.ca/music/current-students/undergraduate

North American Studies (program)

Telephone: 514-398-4400, ext. 09557
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/nast

Philosophy (Department of)

Telephone: 514-398-6060
Email: info.philosophy@mcgill.ca
Website: www.mcgill.ca/philosophy

Philosophy and Western Religions (program)

Telephone: 514-398-4400, ext. 09557
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/phwr

Political Science (Department of)

Telephone: 514-398-4800
Email: undergraduate.polisci@mcgill.ca
Website: www.mcgill.ca/politicalscience

Psychology (Department of)

Telephone: 514-398-6100
Email: info@psych.mcgill.ca
Website: www.psych.mcgill.ca

Québec, Études sur le (program)

Telephone: 514-398-4400, ext. 09557
Email: quebecstudies.arts@mcgill.ca
Website: www.mcgill.ca/qcst

Religious Studies (program)

Telephone: 514-398-4121
Email: web.relgstud@mcgill.ca
Website: www.mcgill.ca/religiousstudies

Russian & Slavic Studies (program)

Telephone: 514-398-3650
 Email: russian.slavicstudies@mcgill.ca
 Website: www.mcgill.ca/russian

Science for Arts Students (program)

Telephone: 514-398-4109
 Email: nancy.nelson@mcgill.ca

Sexual Diversity Studies (program)

Telephone: 514-398-3911
 Email: info.igsf@mcgill.ca
 Website: www.mcgill.ca/igsf/programs/sdst

Social Studies of Medicine (program)

Telephone: 514-398-6033
 Email: dept.ssom@mcgill.ca
 Website: www.mcgill.ca/ssom

Social Work (School of)

Telephone: 514-398-7070
 Email: undergraduate.socialwork@mcgill.ca
 Website: www.mcgill.ca/socialwork

Sociology (Department of)

Telephone: 514-398-6868
 Email: giovanna.terrasi@mcgill.ca
 Website: www.mcgill.ca/sociology

Women's Studies (program)

Telephone: 514-398-4400, ext. 089872
 Email: samantha.thrift@mcgill.ca
 Website: www.mcgill.ca/igsf/programs/wmst

World Cinemas (program)

Telephone: 514-398-4400, ext. 09557
 Email: ines.scharnweber@mcgill.ca
 Website: www.mcgill.ca/worldcinemas

1.11.8 Contact Information for Departments and Programs for Students in the Faculty of Education (B.Ed. & B.Sc. (Kinesiology) Degree)

All students in the Faculty of Education are required to meet with an academic adviser prior to the start of classes.
 Additional contact information is located in the relevant sections of this publication.

Kindergarten & Elementary Program

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca

Secondary English, Mathematics, Social Studies or Science & Technology

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca

Teaching English as a Second Language

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca

Music

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca

Concurrent B.Mus./B.Ed.

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca

Concurrent B.Sc./B.Ed.

Telephone: 514-398-4527

Email: advisedise.education@mcgill.ca



Note: New students are no longer being admitted to this program.

Physical & Health Education

Telephone: 514-398-4184 ext. 0472

Email: kin.physed@mcgill.ca

Kinesiology

Telephone: 514-398-4184 ext. 0472

Email: kin.physed@mcgill.ca

1.11.9 Contact Information for Departments, Schools, and Programs for Students in the Faculty of Engineering

All students in the Faculty of Engineering are required to meet with an academic adviser prior to the start of classes.

U0 students (seeking transfer credits): You are initially advised by the Faculty of Engineering Student Affairs Office, followed by advising in your department/school.

U0 students (not seeking transfer credits) and U1 students: Contact your department/school directly.

Additional contact information can be found in the relevant sections of this publication.

Architecture

Telephone: 514-398-6702
 Email: mary.lanni@mcgill.ca
 Website: www.mcgill.ca/architecture

Chemical Engineering

Telephone: 514-398-3485
 Email: marcia.novoa@mcgill.ca
 Website: www.mcgill.ca/chemeng

Civil Engineering and Applied Mechanics

Telephone: 514-398-6345
 Email: ugradinfo.civil@mcgill.ca
 Website: www.mcgill.ca/civil

Electrical and Computer Engineering

Telephone: 514-398-3943
 Email: undergrad.ece@mcgill.ca
 Website: www.mcgill.ca/ece

Mechanical Engineering

Telephone: 514-398-8070
 Email: lisa.lapka@mcgill.ca
 Website: www.mcgill.ca/mecheng

Mining and Materials Engineering

Mining

Telephone: 514-398-2215
 Email: admin.mining@mcgill.ca
 Website: www.mcgill.ca/minmat

Materials

Telephone: 514-398-1040
 Email: coordinator.minmat@mcgill.ca
 Website: www.mcgill.ca/minmat

Urban Planning

Telephone: 514-398-4075
 Email: admissions.planning@mcgill.ca
 Website: www.mcgill.ca/urbanplanning

1.11.10 Contact Information for Departments, Schools and Programs for Students in the Faculty of Science (or the B.A. & Sc. Degree)

U0 students: Contact the Faculty of Science Student Affairs Office for advising on the Science Freshman program or the B.A. & Sc. Freshman program.

U1 students or any other year: Contact the department (school or program) directly for academic advising.

Additional contact information is located in the relevant sections of this publication.

Anatomy and Cell Biology (Department of)

Telephone: 514-398-6335
Email: vittoria.catania@mcgill.ca
Website: www.mcgill.ca/anatomy

Atmospheric & Oceanic Sciences (Department of)

Telephone: 514-398-3764
Email: paula.domingues@mcgill.ca
Website: www.mcgill.ca/meteo

Biochemistry (Department of)

Telephone: 514-398-2423
Email: christine.laberge@mcgill.ca
Website: www.mcgill.ca/biochemistry

Biology (Department of)

Telephone: 514-398-4109
Email: nancy.nelson@mcgill.ca
Website: <http://biology.mcgill.ca>

Biotechnology (program)

Telephone: 514-398-4109
Email: nancy.nelson@mcgill.ca
Website: www.mcgill.ca/sheldon

Chemistry (Department of)

Telephone: 514-398-6999
Email: advisor.chemistry@mcgill.ca
Website: www.chemistry.mcgill.ca

Cognitive Science (program)

Telephone: 514-398-7330
Email: wendy.brett@mcgill.ca
Website: www.mcgill.ca/cogsci

Computer Science (School of)

Telephone: 514-398-7071, ext. 00739
Email: ugrad-sec@cs.mcgill.ca
Website: www.cs.mcgill.ca

Earth and Planetary Sciences (Department of)

Telephone: 514-398-4402

Earth and Planetary Sciences (Department of)

Email: jeanne.paquette@mcgill.ca

Website: www.mcgill.ca/eps

Earth Systems Science Interdepartmental (program)

Telephone: 514-398-2596

Email: william.minarik@mcgill.ca

Website: www.ess.mcgill.ca/index.php

Environment (School of)

Telephone: 514-398-4306

Email: kathy.roulet@mcgill.ca

Website: www.mcgill.ca/mse

Geography (Department of)

Telephone: 514-398-4951 or 398-4111

Email: gakman@geog.mcgill.ca

Website: www.geog.mcgill.ca

Human Nutrition (program)

Telephone: 514-398-7840

Email: jocelyne.begin@mcgill.ca

Website: www.mcgill.ca/dietetics

Interdepartmental Honours Immunology (program)

Telephone: 514-934-1934, ext. 45135 (Microbiology and Immunology) **or** 514-398-4342 (Physiology)

Email: ciro.piccirillo@mcgill.ca (Microbiology and Immunology) **or** monroe.cohen@mcgill.ca (Physiology)

Website: www.mcgill.ca/microimm/students/undergraduate/programs/interdepartmental

Kinesiology for Science Students (program)

Telephone: 514-398-4184, ext. 0302

Email: kin.physed@mcgill.ca

Website: www.mcgill.ca/edu-kpe

Management (BCom program)

Telephone: 514-398-4068

Email: bcom.mgmt@mcgill.ca

Website: www.mcgill.ca/desautels/bcom

Mathematics & Statistics (Department of)

Telephone: 514-398-3800

Email: ugrad.mathstat@mcgill.ca

Website: www.math.mcgill.ca

Microbiology & Immunology (Department of)

Telephone: 514-398-7492
Email: office.microimm@mcgill.ca
Website: www.mcgill.ca/microimm

Music (program)

Telephone: 514-398-4535
Email: dino.dutz@mcgill.ca
Website: www.mcgill.ca/music

Neuroscience (program)

Telephone: 514-398-7330
Email: wendy.brett@mcgill.ca
Website: www.mcgill.ca/neuroscience

Pathology (Department of)

Telephone: 514-398-7192, ext. 00494
Email: edith.zorychta@mcgill.ca
Website: www.mcgill.ca/pathology

Pharmacology (program)

Telephone: 514-398-3623
Email: chantal.grignon@mcgill.ca
Website: www.medicine.mcgill.ca/pharma

Physics (Department of)

Telephone: 514-398-6477
Email: chairsec.physics@mcgill.ca
Website: www.physics.mcgill.ca

Physiology (Department of)

Telephone: 514-398-4316
Email: sonia.viselli@mcgill.ca
Website: www.medicine.mcgill.ca/physio

Psychology (Department of)

Telephone: 514-398-6100
Email: info@psych.mcgill.ca
Website: www.psych.mcgill.ca

Redpath Museum

Telephone: 514-398-4086, ext. 3188
Email: marie.laricca@mcgill.ca
Website: www.mcgill.ca/redpath

Science for Teachers

Telephone: 514-398-3202

Email: peter.barry@mcgill.ca

Website: www.mcgill.ca/scienceforteachers

1.11.11 Your Academic Career at McGill

1.11.11.1 University-Wide Regulations

This publication contains the regulations about your undergraduate academic career at McGill. It includes regulations concerning when to register, when to add, drop, or withdraw from courses, the consequences of missing deadlines, how grading appears on your transcript, and other important information.

1.11.11.2 Faculty-Specific Regulations

McGill has 11 faculties, and every student belongs to one of them. When you are admitted to McGill, your offer letter indicates the faculty, degree, and program to which you have been accepted, and the number of credits you need to complete for your degree.

You should consult the appropriate faculty section in this publication for information pertinent to your degree and program, and for faculty-specific regulations. For some degrees, such as the Bachelor of Arts and Science (B.A. & Sc.), you belong to two faculties and will need to consult the section on the Bachelor of Arts and Science, as well as the sections on each faculty.

1.11.11.3 Your Academic Program

You are registered in a **degree**, but for many degrees there are associated programs (a major, minor, major concentration, etc.). For some degrees, such as Bachelor of Engineering, you will typically follow one program (such as Computer Engineering). For others, such as Bachelor of Arts, you will typically follow more than one program (such as a major concentration in English, with a minor concentration in History).

A typical undergraduate degree at McGill is 120–140 credits (four years of full-time study).

- Quebec CEGEP students typically receive 30 credits of Advanced Standing, so they will usually only have a further 90–110 credits (three years of full-time study) to complete. This varies by faculty, so consult your faculty section. In your first year, you will be placed in **U1** (undergraduate year 1).
- Most other students typically have 120–140 credits to complete. This varies by faculty, so consult your faculty section. In your first year, you will be placed in **U0** (undergraduate year 0), which is often referred to in this publication and elsewhere as your **freshman** year.
- Many students at McGill come with other forms of Advanced Standing (International Baccalaureate, French Baccalaureate, advanced placement exams, or students admitted from other universities as transfer students). If this is your case, you will receive information during the admissions process.

You will find **program requirements** in your faculty section or in departmental sections within a faculty. In some cases, you may pursue one of your programs in a department outside your faculty. For example, if you are enrolled in a Bachelor of Commerce, but are pursuing a minor concentration in Italian Civilization, you would consult the Desautels Faculty of Management section for the B.Com. requirements, and the Italian Studies department section, under the Faculty of Arts, for the Italian Civilization program requirements.

1.11.11.4 Important things to know about your academic program:

- The number of credits needed to complete your degree. Typically, three credits correspond to a one-term course, but there are many variations.
- **Required courses:** Courses that you must complete to fulfil the requirements of a major, minor, etc., unless you receive exemptions. You have no choices among required courses.
- **Complementary courses:** Alternative courses that you can take to fulfil the requirements of a major, minor, etc. You choose a specified number of these courses.
- **Elective courses:** Courses that do not count toward the fulfilment of the requirements of your major, minor, etc. Students often select these courses from outside their program of study. Some restrictions may apply, but you have the most choice in selecting elective courses. Some faculties also permit you to take elective courses using the Satisfactory/Unsatisfactory option (see [section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#)). You should consult your faculty section concerning elective courses.
- Often, your department will also provide you with a **recommended list** of courses (or streams), so that you know the typical term-by-term course pattern.

For more assistance in understanding program requirements, and for a list of advisers on both Downtown and Macdonald campuses, see [section 1.11: Undergraduate Advising](#).

1.12 Service Point

Service Point has brought together newly integrated, front-line undergraduate and graduate student administrative services. Located on the ground floor of the McLennan Library Building in the heart of the Downtown campus, Service Point will address a wide variety of students' needs.

Among the many services offered at Service Point for undergraduate and graduate students:

- certified or translated copies of diplomas
- degree verification
- help with admissions
- help with Minerva
- international health insurance cards and exemptions
- McGill ID cards
- official transcript pick-up
- replacement diplomas
- student exchanges/study abroad
- submitting legal documents
- tuition and fees information
- pick-up of alternative U.S. Loans

Arts or Science students will also be able to inquire about:

- course and program registration
- exams (including deferred and supplemental)

For a complete list of student services and resources at McGill, see www.mcgill.ca/students.

For more information about Service Point, see www.mcgill.ca/students/servicepoint.

Service Point Location

3415 McTavish Street (corner Sherbrooke)
Montreal, QC H3A 0C8

Opening hours: please refer to www.mcgill.ca/students/servicepoint

Telephone: 514-398-7878

Email for current students: <http://webforms.mcgill.ca/servicepoint/request.asp?bhcp=1>.

Email for applicants/prospective students: <http://webforms.mcgill.ca/servicepoint/contact.asp?bhcp=1>.

1.13 Support for Students: Office of the Dean of Students

The Dean and the Associate Dean of Students coordinate and promote initiatives concerned with important aspects of the student experience, such as advising, academic integrity, student discipline, student recognition programs, and outreach to families, the McGill community, and the broader local community.

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 4100
Montreal, QC H3A 0G3

For information, contact (Dean/Associate Dean):

Telephone: 514-398-4990

Email: deanofstudents@mcgill.ca

Website: www.mcgill.ca/deanofstudents

1.14 Student Services

McGill offers a full range of student services and resources that support your life, learning, personal, and academic achievements.

1.14.1 Office of the Executive Director, Services for Students

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 4100
Montreal, QC H3A 0G3

For information, contact:

Telephone: 514-398-3825

Website: www.mcgill.ca/studentservices

The Executive Director, Services for Students (EDSS), coordinates all student services at McGill to help promote student success and well-being. The EDSS is available to provide assistance and/or information on almost all aspects of non-academic student life. Concerns of an academic nature are directed to the proper individual, office, or department. Funding is also available for projects, initiated by students and/or staff, that enhance student life and learning.

1.14.2 Student Services – Downtown Campus

Unless otherwise indicated, all Student Services on the Downtown campus are located in the William and Mary Brown Student Services Building, 3600 McTavish Street, Montreal, Quebec, H3A 0G3.

A list of services available is given below. For further information, see the Student Services website: www.mcgill.ca/studentservices.

Student Services:

Brown Student Services Building, Suite 4100

3600 McTavish Street

Montreal, Quebec, H3A 0G3

General Information: 514-398-8238

Website: www.mcgill.ca/studentservices

Career Planning Service (CaPS): Provides career education, guidance, and individual advising to help you in your search for permanent, part-time, or summer jobs and internships.

Brown Student Services Building, Suite 2200

Telephone: 514-398-3304

Email: careers.caps@mcgill.ca

Website: www.mcgill.ca/caps

Chaplaincy Service: Concerned with the spiritual and mental well-being of all students.

Brown Student Services Building, Suite 4400

Telephone: 514-398-4104

Email: chaplaincy@mcgill.ca

Website: www.mcgill.ca/students/chaplaincy

Counselling Service: Assists with psychological, emotional, and interpersonal issues as well as vocational and academic concerns.

Brown Student Services Building, Suite 4200

Telephone: 514-398-3601

Email: counselling.service@mcgill.ca

Website: www.mcgill.ca/counselling

First Peoples' House: Fosters a sense of community for Aboriginal students studying at McGill.

3505 Peel Street

Telephone: 514-398-3217

Email: firstpeopleshouse@mcgill.ca

Website: www.mcgill.ca/fph

First-Year Office: Helps ease the transition of all students new to McGill. Coordinates "Discover McGill," a one-day, campus-wide University and faculty orientation.

Brown Student Services Building, Suite 2100

Telephone: 514-398-6913

Email: firstyear@mcgill.ca

Website: www.mcgill.ca/firstyear

Health Services and Dental Clinic: Provides access to experienced physicians, nurses, and health educators who offer health services and information in a confidential atmosphere. Also operates a laboratory offering a wide array of testing, and a dental clinic.

Brown Student Services Building, Suite 3300

Telephone: 514-398-6017

Website: www.mcgill.ca/studenthealth

International Student Services: Offers support to international students on non-academic matters (immigration, health insurance, etc.), runs a Buddy Program and an orientation program.

Brown Student Services Building, Suite 3215
 Telephone: 514-398-4349
 Email: international.students@mcgill.ca
 Website: www.mcgill.ca/internationalstudents

Mental Health Service: A psychiatric clinic that offers easily accessible treatment for mental health problems.

Brown Student Services Building, Suite 5500
 Telephone: 514-398-6019
 Website: www.mcgill.ca/mentalhealth

Office for Students with Disabilities: Coordinates services to meet the needs of students with disabilities.

Redpath Library Building, 3459 McTavish, Suite RS-56
 Telephone: 514-398-6009
 TDD: 514-398-8198
 Email: disabilities.students@mcgill.ca
 Website: www.mcgill.ca/osd

Scholarships and Student (Financial) Aid Office: Provides assistance in the form of loans, bursaries, and Work Study programs to students requiring financial aid.

Brown Student Services Building, Suite 3200
 General Information: 514-398-6013/6014
 Telephone: 514-398-4807 (Scholarships)
 Email: student.aid@mcgill.ca
 Website: www.mcgill.ca/studentaid

Tutorial Service: Sponsors an extensive tutorial program for students.

Brown Student Services Building, Suite 4200
 Telephone: 514-398-6011
 Email: tutoring.service@mcgill.ca
 Website: www.mcgill.ca/tutoring

1.14.3 Student Services – Macdonald Campus

Students who study on the Macdonald campus may make full use of all Student Services on both campuses. All Macdonald campus Student Services are located in the Centennial Centre.

A list of services available is given below. For detailed information, please visit our website at www.mcgill.ca/macdonald-studentservices, and the main Student Services website: www.mcgill.ca/studentservices.

Macdonald Campus Student Service Centre
 Centennial Centre, Room CC1-124
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Telephone: 514-398-7992
 Fax: 514-398-7610
 Email: stuserv.macdonald@mcgill.ca

Career Planning Service (CaPS): Assists you in your career development and search for permanent, part-time, and summer jobs by providing workshops, individual advising, a comprehensive job posting service, Career Fairs, and a Career Resource Centre.

Telephone: 514-398-7582
 Website: www.mcgill.ca/caps
 Email: caps.macdonald@mcgill.ca

Counselling Service: Offers confidential counselling with a psychologist for personal, social, emotional, vocational, and academic issues, among others. Appointments are required.

Website: www.mcgill.ca/counselling
 Telephone: 514-398-7992

Health Services: Offers health services in a confidential environment for a variety of health-related issues including general checkups, STI testing as well as routine and travel vaccinations. Appointments are available with our Nurse and Doctor.

Website: (Macdonald campus) www.mcgill.ca/macdonald-studentservices/feeling-sick

Website: (Downtown campus) www.mcgill.ca/studenthealth

Telephone: 514-398-7992

Student Financial Aid: Information and assistance is available for all students concerning government aid programs (includes all Canadian provinces), McGill Loans and Bursaries, and the Work Study Program. Appointments can be arranged with a Loan Administrator through the Student Service Centre at Macdonald campus to help students with specific financial concerns.

Website: www.mcgill.ca/studentaid

Telephone: 514-398-7992

Macdonald Campus Student Services also provides international health insurance (Blue Cross cards), administers mid-term examinations for students registered with the Office for Students with Disabilities, and offers the Winter Coat Project, which provides students with slightly used winter coats and accessories.

1.14.4 Ombudsperson for Students

The Office of the Ombudsperson for students offers confidential, informal, independent, and neutral dispute resolution services to all members of the student community by providing information, advice, intervention, and referrals.

The mandate of the Ombudsperson at McGill University is to intervene at the beginning of the complaint process, and to attempt to resolve issues informally before they proceed to more formal processes. To learn more about the role and scope of the Ombudsperson for Students, visit the University Secretariat website at: www.mcgill.ca/secretariat/policies/students to consult the mandate of the Office of the Ombudsperson for Students.

Office of the Ombudsperson

3610 McTavish (above Dr. Penfield)

Main Floor, Suite 14

Telephone: 514-398-7059 (for an appointment)

Website: www.mcgill.ca/ombudsperson

1.14.5 Extra-Curricular Activities

There are over 250 activities, clubs, and services that students may join. These include international clubs; religious groups; political clubs; communications groups such as Radio McGill (CKUT), the McGill Tribune, and the McGill Daily; and some 50 miscellaneous groups (e.g., science clubs; literary, theatrical, and musical societies; a chess club; and the McGill Outdoors Club).

The University Centre, 3480 McTavish Street, provides club rooms for these activities in a four-storey building with cafeterias, a ballroom, lounges and an experimental theatre. Activities for graduate students are centred in David Thomson House at 3650 McTavish Street. On the Macdonald campus, facilities are located in the Centennial Centre. Refer to *Programs, Courses and University Regulations > Faculties & Schools > [Faculty of Agricultural and Environmental Sciences](#)*.

1.14.6 Bookstore

The McGill University Bookstore stocks new and used textbooks, a full range of books for the academic and professional community, stationery supplies, and McGill insignia clothing and gift items. Visit the Bookstore website or in person to sign up for email reminders so you are the first to know about services such as used textbook buy-back and other events.

3420 McTavish Street

Telephone: 514-398-7444

Website: www.mcgill.ca/bookstore

Macdonald Bookstore

Centennial Centre

Telephone: 514-398-8300

Website: <http://mcsc.mcgill.ca/index.php?pg=bookstore>

1.14.7 Computer Store

The McGill Computer Store, located on the second floor of the University Bookstore, sells a full range of computer hardware, software, peripherals, and consumer electronics at educational prices.

3420 McTavish Street

Telephone: 514-398-5025
Email: sales.mcs@mcgill.ca
Website: www.mcgill.ca/mcs

1.14.8 Day Care

The McGill Childcare Centre is an independently run centre that can accommodate 106 children, ranging in age from four months to four years. Early application is required as placement is limited, especially for certain age groups.

The Centre is located at:

3491 Peel Street
Montreal, Quebec H3A 1W7
Telephone: 514-398-6943
Website: www.mcgill.ca/daycare

A Campus Day Care Centre, located adjacent to the Macdonald campus, is an independently run centre that can accommodate approximately 60 children, ranging in age from four months to five years. Preference is given to the Macdonald campus community. Early application is recommended.

The Centre is located at:

1 Maple Avenue
Ste.-Anne-de-Bellevue, Quebec H9X 2E3
Telephone: 514-398-7951

1.15 Residential Facilities

McGill Residences offers you a variety of accommodations that reflect the diversity of our student population on both the Downtown and Macdonald campuses.

Mission statement

To continuously develop a safe home and nurturing community for our students through the following means:

- Keeping the value of Respect for ourselves, others, and the physical environment as our cornerstone
- Making environmentally and economically sustainable choices
- Being responsive to student needs and supporting student initiatives
- Maintaining open lines of communication and collaborative decision-making
- Working together to provide a comfortable, clean, and secure environment
- Keeping current with developing technology, practices, and professional development
- Maintaining integrity and accountability
- Thinking critically about what we do and having the courage to change
- Honouring our rich history and strong residence tradition

1.15.1 University Residences – Downtown

McGill Residences house approximately 3,000 undergraduate students in dormitories, apartments, and shared-facilities houses. McGill's dormitories are primarily for first-year students and feature full meal service. McGill's apartment-style residences and shared-facilities houses are mainly for first-year students who desire a more independent residence experience.

Trained upper-year student leaders (Floor Fellows) and Academic Staff (Directors) live in all McGill Residences and provide support for the residents. An elected Residence Council serves as the voice of students.

All residence rooms have telephone and high-speed network-access services which are available at extra cost. All McGill Residences are connected to the McGill Wireless Network.

Residence Admissions Office
3473 University Street, room 150
Montreal, QC H3A 2A8
Telephone: 514-398-6368
Fax: 514-398-2305
Email: housing.residences@mcgill.ca
Website: www.mcgill.ca/students/housing

1.15.1.1 Dormitory-style Residences

McGill has nine dormitory residences:

- The four co-ed Bishop Mountain Residences (Gardner, McConnell, Molson, and Douglas Halls) are located on the slope of Mount Royal and overlook the campus.
- Royal Victoria College (RVC), which has one all-female and one co-ed wing, is located one block from the McGill gates.
- The co-ed New Residence Hall is located five short blocks from the campus.
- University Hall and Prez Rez are co-ed dorms located directly across from the Milton Gates to campus.
- The newest residence, Carrefour Sherbrooke, is a co-ed hall located two blocks from campus.

Dormitory residents have compulsory meal plans and have access to multiple cafeterias.

Rooms at the Bishop Mountain Residences, University Hall, Prez Rez, and RVC are mostly single occupancy. Carrefour Sherbrooke and the New Residence Hall have mostly double rooms. Each student gets a bed, desk, desk lamp, chair, dresser, closet, and small fridge (one fridge per double room).

In all Halls, residents are responsible for the cleanliness of their rooms. Common bathrooms and showers are located on each floor, except in Carrefour Sherbrooke and the New Residence Hall, where there are private bathrooms within each room. Each Hall has a laundry room, including card-operated washers and dryers, and ironing facilities. All Halls have a TV and recreation room, pay telephones, and a small storage area for suitcases, ski equipment, etc.

1.15.1.2 Apartment-style Residences

Solin Hall is a modern, award-winning apartment-style residence that has two-, three- and four-bedroom apartments. Located four Metro stops west of the main campus, Solin features large common areas (TV and game rooms) as well as a computer lab, and houses mostly first-year students. Each apartment has a living room, dining room, kitchen, and bathroom(s), with basic furniture such as stove, fridge, table, chairs, sofa, lamps, and drapes. Bedrooms have a bed, desk, chair, and dresser. All apartments and public-area floors are carpeted. Shopping areas are within short walking distance. Limited indoor parking is available.

The Greenbriar Apartments residence is located one block from the campus. It houses mostly first-year undergraduate students in self-contained studio and double-occupancy, one-bedroom apartments. Apartment kitchens have a stove, fridge, and sink, and bedrooms have a bed, desk, table, chairs, dresser, and blinds.

Although these residences do not offer full meal plans (Solin Hall residents have a small meal plan included with their lease, from which they can opt out), residents may purchase one from Food and Dining Services for use at the residence cafeterias or elsewhere on campus. For more information, see www.mcgill.ca/foodservices/mealplans.

1.15.1.3 Shared-facilities Houses

McGill Residences maintains a number of beautifully renovated older buildings, each housing between 15 and 30 first-year students. These shared-facilities houses are located a few blocks from the campus and have both single- and double-occupancy bedrooms with large shared kitchens, bathrooms, and common areas. Each bedroom has a desk, chair, bed (some are loft beds), dresser, closet, and blinds. Common areas are also fully furnished.

Although these residences do not include meal plans, residents may purchase one from Food and Dining Services for use at the residence cafeterias or elsewhere on campus. For more information, see www.mcgill.ca/foodservices/mealplans.

1.15.1.4 Residence Fees

Residence fees for the 2013–2014 session had not been set at the time this publication was finalized. These are proposed rates that have been approved by the University Residence Council.

Rates for Gardner, McConnell, Molson, University Hall, and Prez Rez are \$7,788 for regular single rooms and \$7,132 for regular double rooms. The rates at Royal Victoria College are \$8,944 for regular single rooms and \$8,202 for a double room. These rates do not include the cost of a mandatory meal plan. Meal plan rates for the 2013–2014 session had not been set at the time this publication was finalized. In 2012–2013, the meal plan rate ranged from \$4,900 to \$5,450. These rates are for the regular session: September 1 to April 30.

At the New Residence Hall and Carrefour Sherbrooke, room rates are \$8,604 per person for regular double rooms and \$9,906 for regular single rooms. These rates do not include the cost of a mandatory meal plan. Meal plan rates for the 2013–2014 session had not been set at the time this publication was finalized. In 2012–2013, the meal plan rate ranged from \$4,900 to \$5,450. These rates are for the regular session: September 1 to April 30.

La Citadelle is a newly renovated residence that opened its doors to its first batch of students in September 2012. Room rates are \$8,896 for a double room and \$10,222 for a single room. Residents of La Citadelle have two reduced mandatory meal plan options, but can opt for a larger plan if they choose. Meal plan rates for the 2013–2014 session had not been set at the time this publication was finalized. In 2012–2013, the reduced meal plan rates were \$1,250 and \$2,850. These rates are for the regular session: September 1 to April 30.

The rooms in Solin Hall are leased on an 11-month basis: September 1 to July 31. The room rates are \$10,098 for a regular single room in a shared apartment and \$10,736 to \$11,594 for a studio (single occupancy) apartment. Residents of Solin Hall are also assessed a \$300 meal plan, from which they have the choice to opt out.

Units in Greenbriar Apartments are also leased on an 11-month basis: September 1 to July 31. The rates are \$11,704 for a studio (single-occupancy) apartment and \$8,062 per person for a regular double apartment. Rates at Greenbriar do not include a meal plan.

Shared-facilities houses are also leased on an 11-month basis: September 1 to July 31. Room rates range from \$9,494 to \$11,146 for a single room, depending on the dimensions of the room. The rates for a double room range from \$7,161 to \$9,183. Rates do not include a meal plan.

These rates are also available at www.mcgill.ca/students/housing/downtown-undergrad/fees.

1.15.1.5 Meal Plans

All dormitory residents have compulsory meal plans that can be used seven days a week. La Citadelle has a reduced, compulsory meal plan that is meant to be used in conjunction with the community kitchen. Residents at Molson, McConnell, and Gardner Halls dine in the large, centrally located Bishop Mountain Hall. Carrefour Sherbrooke, New Residence Hall, and RVC have their own dining areas. Residents of La Citadelle, University Hall, and Prez Rez are welcome to use their meal plan at the residence cafeterias. All of the Halls have kitchenettes, where residents can prepare snacks or meals at any time.

Leases for Solin Hall include a \$300 meal plan, from which you can opt out. Leases for the Greenbriar Apartments and the shared-facilities houses do not include meal plans. The apartments and houses have fully-equipped kitchens where students can prepare their own meals. However, residents are welcome to purchase a meal plan from Food and Dining Services for use at the residence cafeterias or elsewhere on campus. For more information, see www.mcgill.ca/foodservices/mealplans.

1.15.1.6 Student Government

Each Hall has a Residence Council, elected at the start of the academic year. It is the job of the council to gather Hall opinions, supervise financial affairs, and organize recreational and social activities within the residences. McGill's residences are run for the convenience and advantage of the students living in them. Residence Councils play a significant role in deciding and administering their community standards.



Note: Residence fees include an activity fee of \$24 collected by the University on behalf of the Residence Council of each Hall and the Inter-Residence Council. These funds comprise each Council's budget with which to plan activities for the Hall and across residences.

1.15.2 University Residences – Macdonald Campus

Campus Housing Office
P.O. Box 188
Macdonald Campus of McGill University
Sainte-Anne-de-Bellevue, QC H9X 3V9
Telephone: 514-398-7716
Fax: 514-398-7953
Email: residences.macdonald@mcgill.ca
Website: www.mcgill.ca/students/housing/macdonald

Residence life is an integral part of Macdonald campus activities. Laird Hall, with a capacity of 250 students, is a co-ed residence that provides accommodation for undergraduate, graduate, and Farm Management Technology students. Residents enjoy comfortable rooms, modern kitchens, cozy lounge facilities, and other amenities that help make their residence life a complete and meaningful part of their university experience. All dorm rooms have telephone and high-speed network access services, which are available at extra cost.

The EcoResidence accommodates 100 students. This residence will appeal to students who enjoy independent living in self-contained fully furnished apartments of two or six single-bedroom units. Units are split-level with large, airy, common living areas.

1.15.2.1 Residence Fees – Macdonald Campus

Residence fees are paid separately from tuition, in accordance with regulations of the Fee Payment Option selected at the time of signing a Residence Lease.

The residence fees for the 2013–2014 session had not been set at the time this publication was finalized. The 2012–2013 session rates for Laird Hall were: \$2,960 (double occupancy) and \$3,280 (single occupancy). Rates for the EcoResidence varied from \$460 to \$475 per month. An updated fee sheet will be available on the Macdonald residence website at: www.mcgill.ca/students/housing/macdonald.

There is no meal plan offered on the Macdonald Campus. Students may purchase a Commuter meal plan. Refer to www.mcgill.ca/foodservices/mealplans for additional information. Meals are also available on a cash basis from the Link Café, located on the ground floor between the Macdonald-Stewart Building and Barton Library. For budgeting purposes, the cost of meals for the academic year is approximately \$3,200.

1.15.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from August 25, 2013 to April 30, 2014. You must vacate your room at the end of the lease term. Only under exceptional circumstances will you be granted permission to arrive prior to the beginning date of the lease or remain in residence during the summer months. In these cases, you must apply to the Campus Housing Office; an additional fee will be charged if permission is granted.

You can request permission to extend your stay in residence (at the normal weekly charge) if you are taking extended courses after the regular session, employed on campus, or registered for summer courses.

In exceptional circumstances, international students or students coming from a distance may be admitted early. Permission from the Campus Housing Office must be obtained prior to arrival. Student Monitors may be admitted before the opening date of courses, if permission is granted by the Campus Housing Office.

1.15.2.3 Facilities for Non-Resident Students – Macdonald Campus

The Centennial Centre features common rooms for studying. Lockers are available in the Macdonald-Stewart Building. You can rent them at the Students' Society counter in Centennial Centre. The Link Café is located on the ground floor between the Macdonald-Stewart Building and Barton Library and is open Monday through Thursday 8:00 a.m. to 8:00 p.m. and Friday 8:00 a.m. to 2:30 p.m. The Link Café is not open Saturdays, Sundays, or holidays designated by the University.



Note: Non-resident students cannot stay overnight in any residence without permission from the Campus Housing Office.

1.15.2.4 Student Parking – Macdonald Campus

Parking permits are available from Macdonald Campus Security, Room 101 Laird Hall. A parking decal is \$200 for one year and \$120 for one semester and can be picked up Monday to Friday from 8:15 a.m. to 4:00 p.m.

Daily passes for students are \$6 and can be purchased from the parking meter located in the Upper East Gravel lot. The meter is coin-operated and exact change is required. All students obtaining a daily pass must park in the Horticulture lot, east of the Highway 20 overpass. If you are not sure of the location, you can pick up a map from the Campus Security office in Laird Hall. For more information, see www.mcgill.ca/transport/parking/mac.

1.16 Athletics & Recreation

1.16.1 Downtown Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment. Facilities include a gymnasium, fully-equipped fitness centre, varsity weight room, pool, arena, Fieldhouse, stadium, indoor and outdoor running tracks and tennis courts, squash & racquetball courts, spinning, dance and martial arts studios, and various playing fields.

McGill students can participate in instructional, recreational, intramural, and intercollegiate activities, as well as sports clubs. There are nominal fees for instructional courses and membership to the Fitness Centre.

McGill Sports Complex

475 Pine Avenue West

Telephone: 514-398-7000

Email: perry.karnofsky@mcgill.ca (recreational sports) or lisen.moore@mcgill.ca (intercollegiate sports)

Website: www.mcgillathletics.ca

Mobile Website: m.athletics.mcgill.ca

Facebook: www.facebook.com/mcgillathleticsandrecreation

Twitter: www.twitter.com/McGillAthletics

1.16.2 Macdonald Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment, free of charge. Facilities include a gymnasium, weight room (with fitness trainers on hand four evenings per week), arena, tennis courts, playing fields, and large expanses of green space. Students can participate in instructional, recreational, intramural, and intercollegiate activities. There are nominal fees for instructional courses.

Athletics offices are located in the Stewart Athletic Complex, just west of the Centennial Centre.

Stewart Athletic Complex

Telephone: 514-398-7789

Website: www.macdonaldcampusathletics.mcgill.ca

1.17 For your Information Technology (IT) needs

McGill's IT Services website is your one-stop shop for all central IT services at McGill. Visit www.mcgill.ca/it to:

- Find details on all IT services, including available training and support. Services are organized by categories such as “Telephone, Network, and Wireless.”
- Search the McGill IT Knowledge Base for FAQs and supporting articles on all IT services. Search by keywords such as “myMcGill,” or by specific article number.
- Send us your feedback or get help on an IT issue.
- Read featured articles on computer security, new software, and other timely tips.

- Find out about new IT projects on the horizon.
- Check the status of IT systems at a glance and view IT announcements and scheduled downtimes.

Take an interactive video tour of IT services at <http://kb.mcgill.ca/it/welcome-students>. Here you'll learn about myMcGill, the University portal, and myCourses (for online course content). You'll also find information on accessing your McGill email, connecting to the McGill wireless network, and downloading free software available to students.

1.17.1 Logging In

You need to use your McGill Username (usually in the form of `firstname.lastname@mail.mcgill.ca`) and McGill Password to access most central IT services including: myMcGill, myCourses, email, wireless, and Virtual Private Network (VPN).

For some systems, such as uPrint, you may sign in using your McGill Short Username, i.e., the first letter of your first name + first five letters of your last name, usually followed by a number (e.g., jsmith5).

To find out your McGill Username and Short Username, and to create or reset your McGill Password:

1. Log in to Minerva www.mcgill.ca/minerva (using your 9-digit McGill ID number and PIN).
2. Go to *Personal Menu* > *Password for McGill Username*.
3. Follow the onscreen instructions.

1.17.2 myMcGill (the University portal)

myMcGill is the central access point where you:

- Read your email.
- Check myCourses.
- Get direct links to Minerva to view and update your student records and account information.
- Search the McGill Library Catalogue.
- Keep abreast of the latest McGill news.

Click myMcGill in the *Quick Links* menu, at the top of any McGill web page (www.mcgill.ca), and sign in using your McGill Username and McGill Password.

1.17.2.1 Browser Compatibility

myMcGill currently supports the latest versions of the following browsers:

- Internet Explorer (IE) (Windows)
- Firefox (Mozilla) (Windows/Macintosh)

1.17.3 myCourses

Many of your courses will have online materials or activities such as assignments and readings, syllabuses, project guidelines, discussion forums, calendars, etc.

Access your online course content via the myCourses link within the myMcGill portal.

- Verify your browser settings by clicking **System Check** in the **Support** widget on the myCourses home page.
- Watch [myCourses videos for students](#) and access help documentation from the IT Knowledge Base.

Find more information on myCourses for students at: www.mcgill.ca/it.

1.17.4 Email

Your McGill Email Address (usually in the form of `firstname.lastname@mail.mcgill.ca`) is the University's official means of email communication with you. For information on the policy, see *E-mail Communications with Students* at www.mcgill.ca/secretariat/policies/informationtechnology. Access your email at <https://exchange.mcgill.ca> or through the myMcGill portal using your McGill Username and McGill Password. View your McGill Username, McGill Email Address and set up your McGill Password on the Minerva *Personal Menu*.

1.17.5 Online Student Directory

You can opt in to the student directory and make it easier for your fellow classmates to contact you. Find more on this service at www.mcgill.ca/directory/students.

1.17.6 Getting Connected

You will need to use your McGill Username and McGill Password to access the services listed below. You can find more details on these services at www.mcgill.ca/it:

Wireless: Through the McGill Wireless network, you can access the Internet using your laptop or other mobile device from virtually anywhere on campus and also on the inter-campus shuttle buses. Log in to the Wireless network using your McGill Username and McGill Password. Find configuration instructions for your computer/phone in the IT Knowledge Base at www.mcgill.ca/it.

EZproxy: If you are off-campus, you will need to sign into EZproxy before gaining access to restricted McGill Library databases and other library resources. For more details on EZproxy, search the IT Knowledge Base at www.mcgill.ca/it.

McGill Residences Telecommunications: For students living in McGill Residences and McGill Off-Campus Residences, there is REZ Voice and Data service (wired and wireless). For more information search the IT Knowledge Base at www.mcgill.ca/it.

Computer Labs: Many faculties and departments offer their students computer labs. For lab locations and software/peripheral availability, see <http://webforms.mcgill.ca/labs>.

1.17.7 Safe Computing

Free antivirus software: Download free antivirus software to protect your computer at <http://kb.mcgill.ca/it/antivirus>.



Note: Be sure to uninstall any previous antivirus software from your computer before installing new antivirus software.

Tips for keeping information secure: Read about steps you can take to protect your data and identity at www.mcgill.ca/it/information-security.

1.17.8 Set Up Your Security Questions in myMcGill

Setting up your security questions and answers for your McGill Password allows you to use the **Forgot Password?** link found on several McGill applications, in case you forget it.

Once you have set up your McGill Password in Minerva, log in to myMcGill (<https://mymcgill.mcgill.ca>) and click the link in the **McGill Password Security** portlet. Follow the onscreen instructions to set up your own security questions and responses.

1.17.9 Need Help?

Welcome New Students: Take an interactive guided tour of IT services: at <http://kb.mcgill.ca/it/welcome-students>.

McGill IT Knowledge Base: Search the IT Knowledge Base at <http://kb.mcgill.ca> for setup instructions and answers to commonly asked questions about IT.

1.17.9.1 Getting Help

Contact the ICS Service Desk by submitting your request via a web form at www.mcgill.ca/it/get-started-it/need-help, or check phone and walk-in support hours at www.mcgill.ca/it.

1.18 The McGill Writing Centre

The McGill Writing Centre (MWC) offers credit courses in academic writing for both native and non-native speakers of English. In addition to its credit course offerings, the MWC offers non-credit courses, workshops, and individualized tutoring. For further information, please visit the MWC website: www.mcgill.ca/mwc.

Courses coded as CEAP (for native speakers of English) and CESL (for non-native speakers of English) may be taken to fulfil language requirements or as electives in some degree programs. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before you take courses outside of your faculty, especially if the courses are part of your program requirements.

List of Undergraduate Courses: (please take note of course number changes)

Previous Course Number	New Course Number	Course Title	Credits
EAPR 250	CEAP 250	Research Essay and Rhetoric	3
ESLN 299	CESL 299	ESL: Academic English Seminar	3
ESLN 300	CESL 300*	ESL: Academic English 2	3
ESLN 400	CESL 400*	ESL: Essay & Critical Thinking	3
ESLN 500	CESL 500*	ESL: Research Essay and Rhetoric	3

Previous Course Number	New Course Number	Course Title	Credits
EDEC 206	CCOM 206**	Communication in Engineering	3

**Notes:**

* **Placement tests are required for admission to CESL 300, CESL 400, and CESL 500.** Please consult the MWC website at www.mcgill.ca/mwc for details of the date and location of placement tests. **In the case of CEAP 250, students write a brief composition IN CLASS on the first day of classes.**

** CCOM 206 is a required course for and restricted to students in Engineering.

CEAP, CESL, and CCOM courses are not open to students who have taken them previously under the corresponding EAPR, ESLN, and EDEC codes.

List of Graduate Courses: (please take note of course number changes)

Previous Course Number	New Course Number	Course Title	Credits
ESLN 640	CESL 640	Fundamentals of Academic Writing for Graduate Students	3
ESLN 650	CESL 650	Pronunciation & Communication	3
ESLN 660	CESL 660	Pronunciation: Independent Study	N/A
ESLN 690	CESL 690	Writing for Graduate Students	3



Note: CESL courses are not open to students who have taken them previously under the corresponding ESLN codes. CESL graduate courses are not open to postdoctoral fellows.

Course for School of Continuing Studies Students

CCOM 205	Communications in Management 1



Note: CCOM 205 is required for and restricted to students in Career and Professional Development programs offered by the School of Continuing Studies.

1.18.1 Contact Information for The McGill Writing Centre

The McGill Writing Centre
McLennan-Redpath Library
Redpath Main, Room #02
3459 McTavish Street
Montreal, Quebec H3A 0C9

Telephone: 514-398-7109

Fax: 514-398-7416

Website: www.mcgill.ca/mwc

General Inquiries: mwc@mcgill.ca

Inquiries concerning CCOM 205 should be directed to:

Prof. Sue Laver
Email: sue.laver@mcgill.ca
McLennan-Redpath Library
Redpath Main, Room #03
Telephone: 514-398-2351

Inquiries concerning CESL 299, CESL 300, CESL 400, CESL 640, and CESL 650 should be directed to:

Prof. Carolyn Samuel
Email: carolyn.samuel@mcgill.ca
McLennan-Redpath Library
Redpath Main, Room #02F
Telephone: 514-398-1712

Inquiries concerning CCOM 206, CEAP 250, CESL 500, and CESL 690 should be directed to:

Prof. Robert Myles
Email: robert.myles@mcgill.ca
McLennan-Redpath Library
Redpath Main, Room #02D
Telephone: 514-398-3320

Administrative inquiries should be directed to mwc@mcgill.ca.

1.19 Resources for Study and Research

Resources for study and research at McGill University include libraries, archives, museums, laboratories, and other historical collections.

1.19.1 Libraries

The McGill Library consists of 12 branch libraries and three special collections located across both campuses. Numbering over six million items, the Library's vast holdings include 2.5 million books, textbooks, and course-readers, thousands of journal titles, vast manuscript and pictorial collections, and thousands of sound and video recordings. The Library's e-resources are extensive, and include over 60,000 e-journals, multimedia, and two million e-books on subjects ranging from early English literature to nutrition.

A comprehensive website (www.mcgill.ca/library), an online catalogue, and a wide range of library services link the Library's resources to those who need them for learning, research, and scholarship. Hundreds of databases on topics from art history to zoology guide users to relevant journal articles and research materials, while subject guides on topics like chemistry and social work provide comprehensive and clear direction for users undertaking research. The Library's website also provides access to items such as past examination papers, McGill theses, and foreign newspapers. All electronic resources are available for use from home using the VPN (Virtual Private Network) or laboratories anywhere on the campus—access any time, any place.

The staff in each branch library can help you locate information for coursework, assignments, or research topics. Training is provided at all student levels to ensure you know how to find and use information. Information skills programs are undertaken as part of course curricula. Liaison Librarians specialize in specific disciplines, and are available to assist students and staff in person, on the phone, online, by email, and via online chat.

Although opening hours vary, most libraries are open up to 90 hours per week, and several branch libraries extend opening hours during examination periods, including 24-hour-access to the Humanities and Social Sciences Library. Hundreds of computers are available for email, word-processing, accessing online courses, reading library materials, preparing assignments, and searching the Internet. Designed to enhance the learning experiences of diverse users, the Library's facilities offer a variety of comfortable and attractive spaces, including quiet individual study areas, dynamic e-zones, and group study rooms that can be booked for use. Wireless access is available throughout the library, and all libraries have card-operated printing and copying facilities. Special facilities are available for vision- and hearing-impaired users. Laptops and e-readers are also available for loan.

You can use special library services such as the Electronic Data Resources Service, which supports empirical and statistical research. Unique scholarly materials from the Rare Books and Special Collections are being digitized and theses are being submitted electronically. The Course Reserve collection in each branch library includes copies of textbooks and high-demand items on course reading lists. You can borrow materials from any library and return them anywhere across the system. If you need material not owned by McGill University Library, our Interlibrary Loan & Document Delivery Service will source it for you and pickup is available at any branch.

1.19.2 University Archives

The McGill University Archives (MUA) acquires, preserves, and makes available to researchers (including students) more than 5,000 metres of records dating from 1797 to the present. These records document McGill University faculty, research, alumni, and student organizations, and certain Montreal-based organizations. Archived media include textual records, photographs, audio-tapes, film, video, plans, University publications, and artifacts.

The MUA acquires private records to support University research goals and manages the University's corporate memory and information assets through its records management program. This program regulates the flow of administrative records and protects vital evidence of University functions and activities according to Quebec archives and records legislation.

The MUA Reading Room is open Monday to Friday, from 9:00 a.m. to 12:30 p.m. and from 1:45 p.m. to 4:45 p.m.; however, appointments are recommended. The MUA website features virtual exhibitions, tools to search the MUA holdings, and a large bank of digitized images.

McGill University Archives
McLennan Library Building – 6th Floor, Room 17B
Telephone: 514-398-3772
Fax: 514-398-8456
Email: refdesk.archives@mcgill.ca
Website: www.archives.mcgill.ca

1.19.3 Redpath Museum

The Redpath Museum is an academic unit of McGill University. Its mission is to foster understanding and appreciation of the diversity of our biological, geological, and cultural heritage through scientific research, collections-based study, and education. Its collections have been growing for over a century, and provide resources for research and for graduate and undergraduate education in biology, geology, anthropology, and other fields. Its largest collections include fossils from the ancient sea floor of eastern Quebec, the oldest land plants, a vast range of minerals, molluscs from around the world, Egyptian and classical antiquities, and artifacts from Central Africa. The Museum also houses research laboratories and classrooms.

The Museum welcomes McGill students and staff to visit its permanent exhibit, which presents the history of life through the ages illustrated by material from Quebec and neighbouring regions, as well as displays that feature the mineral and mollusc collections. The Museum also features an ethnology gallery devoted to cultures throughout the world, including ancient Egypt, classical Greece and Rome, Asia, and Africa.

859 Sherbrooke Street West
Telephone: 514-398-4086
Email: redpath.museum@mcgill.ca
Website: www.mcgill.ca/redpath

1.19.4 McCord Museum of Canadian History

The McCord Museum houses one of the finest historical collections in North America. It possesses some of Canada's most significant cultural treasures, including the most comprehensive collection of clothing—comprising over 16,000 garments or accessories—made or worn in Canada; an extensive collection of First Nations artifacts—the most important of its kind in Quebec with a corpus of over 13,000 objects from across Canada; and the renowned Notman Photographic Archives, which contain over one million historical photographs and offers a unique pictorial record of Canada from pre-Confederation to the present. The McCord also houses paintings by renowned artists such as Théophile Hamel, Cornelius Krieghoff, James Pattison Cockburn, and George Heriot. The Museum's Textual Archives include some 185 linear metres of documents relating to Canadian history. Finally, the McCord's website (www.mccord-museum.qc.ca) features award-winning virtual exhibitions, innovative learning resources, and a vast, searchable database of information on the Museum's collections.

Exhibitions at the McCord provide innovative interpretations of the social and cultural history of Montreal, Quebec, and Canada. In addition to guided tours, school programs, cultural activities, and lectures, the McCord offers a range of services including the Museum Café and boutique.

Researchers are welcome by appointment.

690 Sherbrooke Street West
Telephone: 514-398-7100
Email: info@mccord.mcgill.ca
Website: www.mccord-museum.qc.ca

1.19.5 Lyman Entomological Museum and Research Laboratory

Located on the Macdonald campus, this institution is the insect collection and systematic entomology laboratory of McGill University. The collection houses 2.8 million specimens of insects and other arthropods, making it the second-largest insect collection in Canada, and the largest university insect collection in the country. The Lyman Museum is not generally open to the public since its main functions are research and teaching, not exhibitions. However, tours are available by appointment to interested parties.

Telephone: 514-398-7914
Website: <http://lyman.mcgill.ca>

1.19.6 Other Historical Collections

In addition to the McGill museums, there are other collections and exhibits of a specialized nature, ordinarily open only to students. For access, contact the appropriate department. These include the Medical Museum.

The Medical Museum is a repository of material dating from the late 19th century that documents the study and practice of Medicine at McGill University and its associated teaching hospitals. The major part of the collection consists of pathologic specimens, including those in the Abbott and Osler collections. The material is housed in the Lyman Duff Medical Building. A showcase in the Pine Street entrance hallway displays temporary exhibits. For more information, see the Museum website www.mcgill.ca/medicalmuseum.

The McGill Physics Department has two specialized collections that may be viewed by appointment:

- The Rutherford Museum contains original apparatus and other items used by Professor Ernest Rutherford in his Nobel Prize-winning research at McGill University on radioactivity (1898–1907). For more information, see www.physics.mcgill.ca/museum/rutherford_museum.htm.
- The McPherson Collection comprises a wide range of historical apparatus and instruments used for measurements and investigations, with special emphasis on 19th-century physics. For more information, see www.physics.mcgill.ca/museum/macpherson_collection.htm.

1.20 The University

McGill University is one of Canada's best-known institutions of higher learning and one of the country's leading research-intensive universities. With students coming to McGill from about 150 countries, our student body is the most internationally diverse of any medical-doctoral university in Canada.

1.20.1 History

The Hon. James McGill, a leading merchant and prominent citizen of Montreal, who died in 1813, bequeathed an estate of 46 acres called Burnside Place together with £10,000 to the "Royal Institution for the Advancement of Learning" upon condition that the latter erect "upon the said tract or parcel of land, an University or College, for the purpose of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

At the time of James McGill's death, the Royal Institution, although authorized by law in 1801, had not been created, but was duly instituted in 1819. In 1821 it obtained a Royal Charter for a university to be called McGill College. Further delay was occasioned by litigation, and the Burnside estate was not acquired until March 1829. The Montreal Medical Institution, which had begun medical lectures at the Montreal General Hospital in 1822, was accepted by the College as its Faculty of Medicine in June 1829. After further litigation, the College received the financial endowment in 1835 and the Arts Building and Dawson Hall were erected. The Faculty of Arts opened its doors in 1843.

Progress, however, was slow until the 1821 Charter was amended in 1852 to constitute the members of the Royal Institution as the Governors of McGill College. Since that time the two bodies have been one. It was first called "The University of McGill College" but in 1885 the Governors adopted the name "McGill University." Even after the amended charter was granted, little advance was made until 1855 when William Dawson was appointed Principal. When he retired 38 years later, McGill had over 1,000 students and Molson Hall (at the west end of the Arts Building), the Redpath Museum, the Redpath Library, the Macdonald Buildings for Engineering and Physics, and a fine suite of medical buildings had been erected.

Since then the University has continued to grow vigorously. In 1884, the first women students were admitted and in 1899 the Royal Victoria College was opened, a gift of Lord Strathcona, to provide separate teaching and residential facilities for women students. Gradually, however, classes for men and women were merged.

In 1905 Sir William Macdonald established Macdonald College at Sainte-Anne-de-Bellevue, as a residential college for Agriculture, Household Science, and the School for Teachers. Those components have since become the Faculty of Agricultural and Environmental Sciences, which includes the School of Dietetics and Human Nutrition, on the Macdonald campus, and the Faculty of Education, located on the Downtown campus. The University's general development has been greatly facilitated by the generosity of many benefactors, and particularly by the support of its graduates, as regular public funding for general and capital expenditures did not become available until the early 1950s. Since that time government grants have become a major factor in the University's financial operations, but it still relies on private support and private donors in its pursuit of excellence in teaching and research.

The University now comprises 11 faculties and 10 schools. At present over 32,000 students are taking credit courses; one in four is registered in Graduate Studies.

The University is also active in providing courses and programs to the community through the School of Continuing Studies.

1.20.2 Incorporated and Affiliated Colleges

1.20.2.1 Incorporated College

Royal Victoria College

3425 University Street, Montreal, QC H3A 2A8

The Royal Victoria College, a non-teaching college of McGill University, provides residential accommodation for both men and women in a co-education environment.

1.20.2.2 Affiliated Theological Colleges

Montreal Diocesan Theological College

3473 University Street, Montreal, QC H3A 2A8

Principal: J. M. Simons; B.A.(Bishop's), S.T.B.(Trin. Coll. (Tor.)), Ph.D.(G'town)

Presbyterian College of Montreal

3495 University Street, Montreal, QC H3A 2A8

Acting Director: Dr. Dale Woods; M.Div.(Vancouver School of Theology), D.Min.(Luther Seminary) (*Director of Pastoral Studies*)

United Theological College of Montreal

3521 University Street, Montreal, QC H3A 2A9
Principal: Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton)

The above three colleges train students for the ministry and grant certificates for ordination but they have remitted their degree-granting powers, except with respect to the M.Div. and honorary doctorates, to the University.

1.20.3 University Government

McGill University is a corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor General as Visitor.

The Governors of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec. In them is vested the management of finances, the appointment of professors, and other duties. Twelve of the governors are elected by the Board from amongst those nominated by its membership committee; three are elected by the Alumni Association; two are elected by Senate from amongst its members; two elected by the full-time administrative and support staff from amongst its members; two elected by the full-time academic staff; and two elected by students from amongst the student body. The Board elects the Chancellor of the University and also, from amongst its members, a chair to preside at its meetings, who may also be the Chancellor. The Chancellor and the Principal are ex officio members.

The Chancellor is presiding officer of Convocation and of joint sessions of the Board of Governors and the Senate.

The Chair of the Board of Governors is President of the Royal Institution for the Advancement of Learning.

The Principal and Vice-Chancellor is the chief executive officer of the University, appointed by the Board of Governors after consultation with a Statutory Committee to Nominate a Principal. The Principal is, ex officio, Chair of Senate.

The Senate is the highest academic authority of the University and has control over admission, courses of study, discipline, and degrees. The regulations of Senate are executed by the various faculties and schools, which also carry primary responsibility for the educational work of the University.

1.20.4 Recognition of Degrees

The Royal Institution for the Advancement of Learning (McGill University) is a publicly funded institution and holds a Royal Charter dated 1821 (amended in 1852) as well as being incorporated under the laws of the Province of Quebec.

McGill University was a founding member of the organization that evolved into the current Association of Universities and Colleges of Canada (A.U.C.C.) in which it remains very active. In addition, McGill University is a member of the American Association of Universities (A.A.U.). It is also a member of the Association of Commonwealth Universities and the International Association of Universities. Its undergraduate, professional, and graduate degrees, including doctorates in a full range of disciplines, have been recognized by educational, government, and private organizations worldwide for decades.

All of McGill's degree programs are approved by the Government of Quebec and the *Conférence des recteurs et des principaux des universités du Québec* (CREPUQ).

1.20.5 Governance: Board of Governors**1.20.5.1 The Visitor****The Visitor**

His Excellency The Right Honourable David L. Johnston

The Governor General of Canada

1.20.5.2 Board of Governors**Board of Governors**

Stuart (Kip) Cobbett; B.A., B.C.L.(McG.)

Chair

Heather Munroe-Blum; O.C., O.Q., B.A., B.S.W.(McM.), M.S.W.(W. Laur.),
Ph.D.(N. Carolina)

Principal and Vice-Chancellor

H. Arnold Steinberg; C.M., B.Com.(McG.), M.B.A.(Harv.), LL.D.(McG.)

Chancellor

1.20.5.2.1 Members**Members**

Michael T. Boychuk; B.Com.(McG.)

Gerald Butts; B.A., M.A.(McG.)

Members

Peter Coughlin; B.Com.(Car.), M.B.A.(W. Ont.)
 Ronald Harry Critchley; B.A.(C'dia-Loyola), M.A.(York)
 Lili de Grandpré; B.A.(W. Ont.), M.B.A.(McG.)
 Kathy Fazel; B.Com.(McG.)
 Claude Génèreux; B.Eng.(McG.), M.A.(Oxf.)
 David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina)
 Kenneth Hastings; B.A., Ph.D.(McG.)
 Bryan Haynes; B.A., LL.B.(McG.)
 Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)
 David Kalant; B.Sc.(McG.), Ph.D.(C'dia)
 Samuel Minzberg; LL.B.(McG.)
 Cynthia Price; B.Com.(McG.)
 Martine Turcotte; B.C.L./LL.B.(McG.), M.B.A.(London Business School)
 Thierry Vandal; B.Eng., M.B.A.(Montr.)
 Ann Vroom; B.A.(McG.)
 Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)
 TBA
 TBA

1.20.5.2.2 Student Representatives

Student Representatives

Students' Society of McGill (1)
 Post-Graduate Students' Society of McGill (1)
Observers
 McGill Association of Continuing Education Students (1)
 Macdonald Campus Students' Society (1)

1.20.6 Governance: Members of Senate

1.20.6.1 Ex-officio

Ex-officio

The Chancellor
 The Chair of the Board of Governors
 The Principal and Vice-Chancellor
 The Provost, Deputy Provost, and the vice-principals
 The deans of faculties
 The Dean of Continuing Studies
 The Dean of Graduate and Postdoctoral Studies
 The Dean of Students
 The Dean/Director of Libraries

1.20.6.2 Elected Members**Elected Members**

63 members elected by the faculties, the University Libraries, the Board of Governors, and administrative and support staff

Medical Residents or Postdoctoral Scholars Group (1)

Student Members (19)

1.20.7 Administration**Administration**

H. Arnold Steinberg; C.M., B.Com.(McG.), M.B.A.(Harv.), LL.D.(McG.)	Chancellor
Heather Munroe-Blum; O.C., O.Q., B.A., B.S.W.(McM.), M.S.W.(W. Laur.), Ph.D.(N. Carolina)	Principal and Vice-Chancellor
Anthony C. Masi; A.B.(Colgate), Ph.D.(Brown)	Provost
Morton J. Mendelson; B.Sc.(McG.), Ph.D.(Harv.)	Deputy Provost (Student Life & Learning)
Kathleen Massey; B.A.(York), M.A.(R. Roads)	University Registrar and Executive Director of Enrolment Services
Jana Luker; B.A.(Guelph), B.Ed., M.Ed.(Tor.)	Executive Director of Services for Students
Nathalie M. Cooke; B.A. (Qu.), B.Ed., M.A.(Tor.), M.A. (C'nell), Ph.D.(Tor.)	Associate Provost (Academic Staff & Priority Initiatives)
Jan Jorgensen; B.A., M.A.(N. Carolina), Ph.D.(McG.)	Associate Provost (Faculty Affairs & Resource Allocation)
Lydia White; B.A., M.A.(Camb.), Ph.D.(McG.)	Associate Provost (Policies, Procedures & Equity)
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	Associate Provost (Graduate Education) and Dean (Graduate & Postdoctoral Studies)
Chandra Madramootoo; B.Sc., M.Sc., Ph.D.(McG.)	Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural & Environmental Sciences)
Ghilaine Roquet; B.A.(UQAM), M.Sc.A.(Montr.)	Chief Information Officer
Stephen Stroppe; B.A.(Dal.), M.A.(York)	Secretary-General
Michael Di Grappa; B.A.(C'dia), M.P.P.A.(Col.), M.A.(Harv. Business School)	Vice-Principal (Administration & Finance)
Lynne B. Gervais; B.A.(C'dia)	Associate Vice-Principal (Human Resources)
Robert Couvrette; B.Sc.(École Poly., Montr., HEC), MPM(UQAM)	Associate Vice-Principal (University Services)
Marc Weinstein; B.A., B.C.L., LL.B.(McG.)	Vice-Principal (Development & Alumni Relations)
David Eidelman; M.D., C.M.(McG.), FRCPC, FACP	Vice-Principal (Health Affairs) and Dean (Faculty of Medicine)
Sam Benaroya; B.Sc., M.D., C.M.(McG.)	Associate Vice-Principal (Health Affairs) and Associate Dean (Inter-Hospital Affairs)
Rose Goldstein; B.Sc., M.D., C.M.(McG.)	Vice-Principal (Research & International Relations)
Rima Rozen; B.Sc., Ph.D.(McG.)	Associate Vice-Principal (Research & International Relations)
Sarah Stroud; B.A.(Harv.), Ph.D.(Princ.)	Associate Vice-Principal (Research & International Relations)
Olivier Marcil; B.A.(Sher.), M.A.(Montr.)	Vice-Principal (External Relations)

1.20.7.1 Deans, Directors of Schools and Libraries**1.20.7.1.1 Deans****Deans**

Chandra Madramootoo; B.Sc., M.Sc., Ph.D.(McG.)	Agricultural & Environmental Sciences
Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)	Arts
Judith Potter; B.Sc.(Tor.), M.Ad.Ed.(St. FX), Ed.D.(Tor.)	Continuing Studies

Deans

Paul J. Allison; B.D.S., F.D.S.R.C.S., M.Sc.(Lond.), Ph.D.(McG.)

Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

Andrew Kirk; B.Sc.(Brist.), Ph.D.(Lond.) (*Interim*)

James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng. (*Effective July 1, 2013*)

Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)

Daniel Jutras; LL.B.(Montr.), LL.M.(Harv.)

Colleen Cook; B.A., M.L.S., M.A., Ph.D.(Texas)

Peter Todd; B.Com.(McG.), Ph.D.(Br. Col.)

David Eidelman; M.D., C.M.(McG.), FRCPC, FACP

Sean Ferguson; B.Mus.(Alta.), M.Mus., D.Mus.(McG.)

Ellen Aitken; A.B.(Harv.), M.Div.(U. of the South), Th.D.(Harv.)

Martin Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.)

Andre Coustopoulos; B.A.(McG.), M.A.(Montr.), Ph.D.(Oulu)

Dentistry

Education

Engineering

Engineering

Graduate & Postdoctoral Studies

Law

Libraries

Management

Medicine

Music

Religious Studies

Science

Dean of Students

1.20.7.1.2 Directors of Schools

Directors of Schools

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.)

Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)

Gregory Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.)

Kristine G. Koski; B.Sc., M.Sc.(Wash.), Ph.D.(Calif.)

Marilyn Scott; B.Sc.(New Br.), Ph.D.(McG.)

France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)

Hélène Ezer; B.Sc., M.Sc.(McG.), Ph.D.(Montr.)

Annette Majnemer; B.Sc., M.Sc., Ph.D.(McG.)

Wendy Thomson; B.S.W., M.S.W.(McG.), Ph.D.(Brist.)

Raphael Fischler; B.Eng.(Technische Univ Eindhoven), M.C.P.(MIT), Ph.D.(Calif.)

Architecture

Communication Sciences & Disorders

Computer Science

Dietetics & Human Nutrition

Environment

Information Studies

Nursing

Physical & Occupational Therapy

Social Work

Urban Planning

1.20.8 Student Governance

All students registered in an undergraduate program on the Downtown (McGill) campus are registered members of the accredited Students' Society of McGill University, affectionately known as SSMU. SSMU acts as your representation on key issues inside and outside of the campus. There are six elected executives of the SSMU who represent all 20,000-plus undergrads on the Downtown campus. There is a legislative council that meets with representatives from faculty associations and other student groups around campus on a bi-weekly basis. This council of thirty-six members meets to discuss SSMU business.

The SSMU runs over 200 clubs and 21 services and provides a great deal of extra-curricular opportunities for students to balance a life of study with a life of play, and an opportunity to meet other students. The organization also provides event programming like freshman orientation (Orientation Week/Frosh), Activities Night, a holiday fair, movie screenings, Homecoming Bash, concerts, and speakers. Each faculty and each department also has organizations dedicated to providing extra-curricular involvement for their students.

Situated on the Downtown campus, the SSMU operates a five-floor building including a student lounge, cafeteria, campus bar, club office space, and a campus multipurpose venue.

The SSMU offices are located at 3600 McTavish Street, suite 1200 and operate between the hours of 9:00 a.m. and 5:00 p.m. during the year.

For more information regarding student government at McGill you can contact:

President: pres@ssmu.mcgill.ca

Vice President Clubs and Services: cs@ssmu.mcgill.ca

Vice President Internal Affairs: internal@ssmu.mcgill.ca

Vice President External Affairs: external@ssmu.mcgill.ca

Vice President Finance and Operations: operations@ssmu.mcgill.ca

Vice President University Affairs: ua@ssmu.mcgill.ca

Or visit the website at www.ssmu.mcgill.ca.

Welcome to McGill and we look forward to representing your interests.

2 Faculty of Agricultural and Environmental Sciences

2.1 About the Faculty of Agricultural and Environmental Sciences, including School of Dietetics and Human Nutrition

Mission Statement: The Faculty of Agricultural and Environmental Sciences is committed to excellence in teaching, research, and service to ensure that humanity's present and future food, health, and natural resource needs are met while protecting the environment.

2.2 History of the Faculty

Dedicated to improving the quality of life in Quebec's rural communities, Sir William Christopher Macdonald founded the School of Agriculture, the School for Teachers, and the School of Household Science at Macdonald College in Sainte-Anne-de-Bellevue in 1906. Macdonald College opened its doors to students in 1907 and its first degrees were awarded in 1911. The School for Teachers became the Faculty of Education in 1965 and moved to the downtown campus in 1970. Currently the Macdonald Campus is home to the Faculty of Agricultural and Environmental Sciences, the School of Dietetics and Human Nutrition, and the Institute of Parasitology. The Faculty is comprised of the Departments of Animal Science, Bioresource Engineering, Food Science and Agricultural Chemistry, Natural Resource Sciences, and Plant Science. The Faculty is one of the founding members of the McGill School of Environment and is also home to the Farm Management and Technology Program. The current enrolment is just short of 1800 undergraduate and graduate students.

2.3 Macdonald Campus Facilities

2.3.1 Morgan Arboretum

The Morgan Arboretum has 245 hectares of managed and natural woodlands, fields, and tree plantations used for environmental research and teaching in a wide range of courses. Eighteen formal tree collections contain groups of Canadian native trees and many useful and important exotics. In addition, over 170 species of birds, 30 species of mammals, and 20 species of reptiles and amphibians seasonally inhabit the property. Finally, the Arboretum features 25 kilometers of ski, snowshoe, and walking trails, a variety of forest ecosystems, conservation projects, and forest operations such as maple syrup production. A nature interpretation program is also offered. More information is available at www.mcgill.ca/nrs/facilities/arboretum.

2.3.2 Macdonald Campus Library

Located in the Barton Building, the Macdonald Campus Library provides access to leading-edge print and electronic collections, facilities, and services to support a broad range of needs. The Library's collections encompass a wide variety of print and electronic resources in the areas of agriculture, nutrition, and environmental sciences.

The Library's catalogue, research databases, McGill theses, past exams, and other online resources are accessible to you via the Library website. The Library is also a depository for many print and electronic government publications. The Library's eZone computers provide access to specialized software such as ArcGIS, SAS and EndNote. Comfortable seating, study tables, group study rooms, and a 24-hour study area are also available to you. The area is equipped for direct or wireless laptop access to the McGill network and the Internet. Laptops and ebook readers can also be borrowed.

Librarians specializing in specific subject areas are available to help you find information for your course assignments or research topics, either in person or by phone, email, or chat. Tours and research workshops are provided throughout the year.

More information is available at www.mcgill.ca/library/library-using/branches/macdonald-library or feel free to drop by.

2.3.3 Macdonald Campus Computing Centre

The Macdonald Campus Computing Centre is managed by McGill's IT Customer Services (ICS) unit. Undergraduate computing labs are open 24/7, year round. The labs offer computers running Microsoft Office software, scanners, and printers.

The IT walk-in support office, located in the Macdonald-Stewart Building, Room MS 2-025, is open from 9:00 a.m. to 5:00 p.m., Monday to Friday. For support on all central IT services, contact the ICS Service Desk by email at ITsupport@mcgill.ca or call 514-398-3398.

For more information and to search the IT Knowledge Base, visit the IT Services web page at www.mcgill.ca/it.

2.3.4 Lyman Entomological Museum and Research Laboratory

Originally established in 1914 and formerly housed in the Redpath Museum, the Lyman Entomological Museum was moved to the Macdonald campus in 1961. It houses the largest university collection of insects in Canada, second in size only to the National Collection. The Museum also has an active graduate research program in association with the Department of Natural Resource Sciences. Study facilities are available, on request from the Curator, to all bona fide students of entomology. Visits by other interested parties can be arranged by calling 514-398-7914. More information is available at <http://lyman.mcgill.ca>.

2.3.5 Brace Centre for Water Resources Management

The Brace Centre for Water Resources Management is located on the Macdonald campus. It is a multidisciplinary and advanced research and training centre of McGill University, dedicated to solving problems of water management for all human and environmental uses. It brings together staff from several McGill faculties to undertake research, teaching, specialized training, and policy and strategic studies, both in Canada and internationally. The Centre draws on the wide range of facilities available within the University. More information is available at www.mcgill.ca/brace.

2.4 About the Faculty of Agricultural and Environmental Sciences, including School of Dietetics and Human Nutrition (Undergraduate)

The Faculty of Agricultural and Environmental Sciences and the School of Dietetics and Human Nutrition are located on McGill University's Macdonald campus, which occupies 650 hectares in a beautiful waterfront setting on the western tip of the island of Montreal.

Students can earn internationally recognized degrees in the fields of agricultural sciences and applied biosciences, food and nutritional sciences, environmental sciences, and bioresource engineering. Students have the opportunity, in all programs, to study abroad in places such as Panama, Barbados, or Africa. Students may also have the opportunity to participate in internships.

Macdonald is a very diverse and international campus. Students are taught by outstanding professors who are among the top in their fields. The campus has excellent facilities for teaching and research, including well-equipped laboratories, experimental farm and field facilities, and the Morgan Arboretum. The campus is surrounded by the Ottawa and St. Lawrence rivers.

The Faculty is at the forefront of advances in the basic sciences and engineering associated with food supply, human health and nutrition, and the environment, and it is a world leader in plant and animal biotechnology, bioproducts and bioprocessing, bioinformatics, food safety and food quality, environmental engineering, water management, soils, parasitology, microbiology, and ecosystem science and management.

The Macdonald campus is an exciting place to live, work, study, learn, and discover. Its very intimate collegial and residential setting allows for strong interaction between staff and students, and for enriched student activity and participation in extracurricular activities. A hallmark of our undergraduate programs is the ability to provide hands-on learning experiences in the field and labs, and the smaller class sizes.

2.4.1 Location

McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, Quebec H9X 3V9
Canada

Telephone: 514-398-7925

Website: www.mcgill.ca/macdonald

The Faculty of Agricultural and Environmental Sciences and the School of Dietetics and Human Nutrition are located on the Macdonald campus of McGill University in Sainte-Anne-de-Bellevue at the western end of the island of Montreal.

Served by public transport (STM [www.stm.info], bus, and train), it is easily reached from the McGill Downtown campus and from the Pierre Elliott Trudeau International Airport. Special arrangements can be made for prospective students to use the McGill inter-campus shuttle bus service. The shuttle service is available to all registered students.

2.4.2 Administrative Officers

Dean, Faculty of Agricultural and Environmental Sciences, and Associate Vice-Principal (Macdonald Campus)

Chandra Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.), P.Eng. (*James McGill Professor*)

Associate Deans

William H. Hendershot; B.Sc.(Tor.), M.Sc.(McG.), Ph.D.(Br. Col.) (*Academic*)

Suha Jabaji; B.Sc.(AUB), M.Sc.(Guelph), Ph.D.(Wat.) (*Research*)

David J. Lewis; B.Sc., M.Sc., Ph.D.(Mem.) (*Student Affairs*)

Associate Deans

Ian Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*Graduate Studies*)

Manager, Student Affairs

Silvana Pellecchia

Director, Academic and Administrative Services

Gary O'Connell; B.Comm.(C'dia)

Director of Athletics

William R. Ellyett; B.A.(Sir G. Wms.), B.Ed.(Phys.Ed.)(McG.)

General Manager, Macdonald Campus Farm

Paul Meldrum; B.J.(Hons.)(Car.)

Manager, Campus Housing

Ginette Legault

Supervisor, Property Maintenance

Peter D.L. Knox; B.Sc.(Agr.)(McG.)

2.4.3 Faculty Admission Requirements

For information about the admission requirements for this Faculty, please refer to the *Undergraduate Admissions Guide* found at www.mcgill.ca/applying.

For information about inter-faculty transfers, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > *Registration* > [section 1.3.15: Interfaculty Transfer](#).

Applications are submitted directly online at www.mcgill.ca/applying. Please note that the same application is used for all undergraduate programs at McGill and two program choices can be entered. For further information, contact:

Student Affairs Office
Macdonald Campus of McGill University
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, Quebec H9X 3V9

Telephone: 514-398-7928 or 7925
Email: studentinfo.macdonald@mcgill.ca
Website: www.mcgill.ca/macdonald/prospective

More specific information on application deadlines and admission requirements can be found at www.mcgill.ca/applying.

2.4.4 Student Information

Friendly staff are on hand to answer your questions about academics, residence, athletics, student life, health concerns, and much more.

2.4.4.1 The Student Affairs Office

The Student Affairs Office, located in Laird Hall, Room 106, provides a wide variety of academic services. These include information about admission (prerequisites and program requirements), academic standing, examinations (deferrals, conflicts, rereads), exchange programs, inter-faculty transfers, program changes, registration (course change, withdrawals), scholarships (entrance and in-course), second degrees, second majors, minors, session away, and graduation (convocation).

Website: www.mcgill.ca/macdonald/studentinfo/sao

2.4.4.2 Student Services

Students who study on the Macdonald campus can make full use of all McGill Student Services on both campuses. Student Services at the Macdonald campus offers the following primary services: Career Planning Service (CaPS), Counselling, Student Financial Aid, and Student Health Services. In addition, Macdonald campus Student Services offers international health insurance (Blue Cross cards), administration of mid-term exams for students registered with the Office for Students with Disabilities, and the Winter Coat Project.

All Student Services, whether at the Macdonald or the Downtown campuses, fall under the direction of the Office of the Executive Director, Services for Students; see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Services > [section 1.14.1: Office of the Executive Director, Services for Students](#)*.

For detailed information on our services, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Services > [section 1.14.3: Student Services – Macdonald Campus](#)* or our website: www.mcgill.ca/macdonald-studentservices.

2.4.4.3 Macdonald Campus Residences

You can apply for residence in either of two distinctive facilities:

Laird Hall, with a capacity of 250 students, is arranged on a co-educational basis and provides single- and double-room accommodation for both undergraduate and graduate students.

The EcoResidence accommodates 100 students in apartment-style living. It offers fully furnished six-plex and two-plex apartments including individual bedrooms.

For further information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Residential Facilities > [section 1.15.2: University Residences – Macdonald Campus](#)*; www.mcgill.ca/students/housing/macdonald or email residences.macdonald@mcgill.ca.

2.4.4.4 Student Life

All undergraduate, postgraduate, and Farm Management and Technology students are members of the Macdonald Campus Students' Society. The MCSS, through the 18-member Students' Council, is involved in numerous campus activities such as social events, academic affairs, and the coordination of clubs and organizations. Student life is informal and friendly, and student groups range from the Outdoor Adventure Club to the Photography Society. Major social events include Frosh activities, Halloween Party, and Winter Carnival. The Ceilidh, a student-run bar located in the Centennial Centre, is open every Thursday night.

The Centennial Centre is the centre of student life, offering facilities for student activities, such as meeting rooms, club rooms, pool tables, and great places to relax, listen to music, and meet friends. Also located in the Centre are the Students' Council offices, an information desk, and the Robber's Roost Campus Bookstore.

2.4.4.5 Student Rights and Responsibilities

The *Handbook on Student Rights and Responsibilities* is published jointly by the Office of the Dean of Students and the University Secretariat. A copy of the Handbook can be found at www.mcgill.ca/secretariat/policies/students.

2.4.4.6 Fees

The University reserves the right to make changes without notice in its published scale of tuition, residence, and other fees.

Payment of student fees can be made directly on Minerva through Internet banking or preauthorized debit charges. Electronic billing is the official means of delivering fee statements to all McGill students. The University generally produces e-bills at the beginning of the month and sends an email notification to your official McGill email address stating that your e-bill is available for viewing on Minerva.

The University shall have no obligation to issue any transcript of record, award any diploma, or re-register a student in case of non-payment of tuition fees, library fines, residence fees, or loans on their due date.

2.4.4.6.1 Tuition Fees

General information on tuition and other fees is found under *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.4: Fees](#)*.

2.4.4.6.2 Other Expenses

In addition to tuition fees and the cost of accommodation and meals, you should be prepared to spend a minimum of \$1,000 (depending on your program) on prescribed textbooks and classroom supplies. These may be purchased at the Campus Bookstore in the Centennial Centre.

Uniforms are required for food laboratories. If you are in the B.Sc.(Nutr.Sc.) program, you will be advised of the uniform requirements on acceptance or promotion.

2.4.4.7 Immunization for Dietetics Majors

As a student in the Dietetics Major, you are required to complete the Compulsory Immunization Program for Health Care Students prior to or at the commencement of the U1 Winter Professional Practice (Stage) course NUTR 208. Participation in Professional Practice (Stage) in Dietetics will only be permitted after you have completed all immunization requirements, and certain deadlines will apply. Updates to your immunizations may be required during your program. For full details, see www.mcgill.ca/studenthealth/forms/healthsciences.

2.4.4.8 Language Requirement for Professions

Quebec law requires that candidates seeking admission to provincially recognized Quebec professional corporations or *Ordres* have a working knowledge of the French language, i.e., be able to communicate verbally and in writing in that language. Agrologists, chemists, dietitians, and engineers are among those within this group.

For additional information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Admission to Professional and Graduate Studies > [section 1.10.1: Language Requirements for Professions](#)*.

2.4.5 Faculty Information and Regulations

Each student in the Faculty of Agricultural and Environmental Sciences must be aware of the Faculty Regulations as stated in this publication.

While departmental and faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of your course selection and registration, for compliance with, and completion of your program and degree requirements, and for the observance of regulations and deadlines, *rests with you*. It is your responsibility to seek guidance if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

2.4.5.1 Minimum Credit Requirement

You must complete the minimum credit requirement for your degree as specified in your letter of admission.

Students are normally admitted to a four-year program requiring the completion of 120 credits, but advanced standing of up to 30 credits may be granted if you obtain satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests.

Normally, Quebec students who have completed the *Diplôme d'études collégiales* (DEC) or equivalent diploma are admitted to the first year of a program requiring the completion of a minimum of 90 credits, 113 credits for Bioresource Engineering, 115 credits for Dietetics plus any missing basic science prerequisites, and 122 credits for the Concurrent Degrees in Food Science and Nutritional Sciences.

Students from outside Quebec who are admitted on the basis of a high school diploma enter the Freshman Major, which comprises 30 credits (see [section 2.6.1: Freshman Major](#) in this publication).

You will not receive credit toward your degree for any course that overlaps in content with a course successfully completed at McGill, at another university, at CEGEP, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate.

If you are a student in the B.Sc.(Ag.Env.Sc.) and in the Diploma in Environment (AES), you must take a minimum of two-thirds of your course credits within the Faculty of Agricultural and Environmental Sciences.

2.4.5.2 Minimum Grade Requirement

You must obtain grades of C or better in any required, complementary, and Freshman courses used to fulfil program requirements. You may not register in a course for which you have not passed all the prerequisite courses with a grade of C or better, except by written permission of the Departmental Chair concerned.

2.4.5.3 Academic Advisers

Upon entering the Faculty and before registering, you must consult with the academic adviser of your program for selection and scheduling of required, complementary, and elective courses. The academic adviser will normally continue to act in this capacity for the duration of your studies in the Faculty.

A faculty adviser is also available in the Student Affairs Office to assist you with student record related matters.

2.4.5.4 Categories of Students

2.4.5.4.1 Full-Time Students

Full-time students in Satisfactory Standing take a minimum of 12 credits per term. (A normal course load is considered to be 15 credits per term.)

Students in Probationary Standing are not normally permitted to take more than 14 credits per term. In exceptional circumstances, the Committee on Academic Standing may give permission to attempt more.

2.4.5.4.2 Part-time Students

Part-time students carry fewer than 12 credits per term.

2.4.5.5 Academic Standing

You must prove that you can master the material of lectures and laboratories. Examinations are normally held at the end of each course, but other methods of evaluation may also be used. The grade assigned for a course represents your Standing in all the coursework.

The following rules apply to your Academic Standing:

1. When your CGPA (or TGPA in the first term of the program) falls below 2.00, your Academic Standing becomes Probationary.
2. If you are in Probationary Standing, you may register for no more than 14 credits per term.
3. While in Probationary standing, you must achieve a TGPA of 2.50 to continue in Probationary Standing or a CGPA of 2.00 in order to return to Satisfactory Standing. Failure to meet at least one of these conditions will result in Unsatisfactory Standing. (In the case of Fall term, this will be Interim Unsatisfactory Standing and the rules for Probationary Standing will apply.)
4. When your CGPA (or TGPA in the first term of the program) falls below 1.50, your Academic Standing becomes Unsatisfactory and you must withdraw. (In the case of Fall term, the standing will be Interim Unsatisfactory standing and the rules for Probationary standing will apply.)
5. If you are in Unsatisfactory Standing, you may not continue in your program. You may apply for readmission only after your registration has been interrupted for at least one term (not including Summer term).
6. Readmission will be in the Standing Unsatisfactory/Readmit and a CGPA of 2.00 must be achieved to return to Satisfactory standing or a TGPA of 2.50 must be achieved for Probationary Standing. If you fail to meet at least one of these conditions, you will be required to withdraw permanently.

7. Students in the School of Dietetics and Human Nutrition have additional standards in place for the professional program (Dietetics). See [section 2.6.5.4: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Major Dietetics \(115 credits\)](#).

2.4.5.5.1 Committee on Academic Standing

The Faculty's Committee on Academic Standing, consisting of academic staff, administrative staff, and a student representative, reviews special requests made by students regarding their academic life.

2.4.5.6 Credit System

The credit assigned to a particular course reflects the amount of effort it demands of you. As a guideline, a one-credit course would represent approximately 45 hours total work per course. This is, in general, a combination of lecture hours and other contact hours such as laboratory periods, tutorials, and problem periods as well as personal study hours.

Please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Records > [section 1.5.2: Credit System](#)*.

2.4.5.6.1 School of Continuing Studies Courses

Not all School of Continuing Studies credit courses are recognized for credit within Faculty degree programs. Please contact the Student Affairs Office before registering for such courses.

2.4.5.7 Academic Credit Transfer

Transfer credits based on courses taken at other institutions (completed with a grade of C or better) before entrance to this Faculty are calculated and assigned after you are accepted, and have accepted the offer of admission.

Transfer credits may also be granted for courses taken at other institutions (completed with a grade of C or better) while you are attending McGill University. You must secure permission to apply such credits to your program in this Faculty before you begin the work. Prior Approval Forms are available in the Student Affairs Office in the Faculty. Grades obtained in such courses do not enter into calculations of grade point averages (GPA).

Exemption from a required or complementary course on the basis of work completed at another institution must be approved by both the instructor of the appropriate McGill course and the Academic Adviser.

As a full-time degree student, you may register, with approval of the Student Affairs Office, for course(s) at any university in the province of Quebec through CREPUQ. Those courses successfully completed with a minimum grade of C (according to the standards of the university giving the course) will be recognized for the purpose of your degree, but the grades obtained will not enter into your GPA calculations.

For further details, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.5: Quebec Inter-University Transfer Agreement: McGill Students](#)*, or go to www.crepuq.qc.ca to access the online application.

2.4.5.8 Regulations Regarding Second Academic Majors

While registered in a major in the Faculty of Agricultural and Environmental Sciences, you may pursue a second set of courses of greater scope than a minor (e.g., Faculty program, Major, Honours program, Major concentration) in either this Faculty or another faculty. Application for a Second Academic Major must be made to the Associate Dean (Student Affairs) in the Student Affairs Office, Laird Hall, Room 106. Following are the regulations and procedures for Second Academic Majors:

1. You must be in Satisfactory Academic Standing with a minimum CGPA of 3.00 in order to apply for a Second Academic Major.
2. In consultation with the appropriate authority associated with each major (Academic Adviser, Associate Dean), you must construct a proposal showing all the courses that are to be taken to satisfy the entrance and program requirements of both the First and Second Academic Majors.
3. A minimum of 36 credits must be unique to the Second Major (i.e., not part of the required or complementary courses taken for the First Major).
4. You must obtain prior approval for all proposed Second Academic Majors from your Academic Adviser and the Student Affairs Office and from the Associate Dean, adviser, or appropriate committee of the other faculty concerned.
5. Normally, proposals for Second Academic Majors will be initiated before completion of U1 year of the First Academic Major.
6. The academic standards applicable to each major will be respected.

2.4.5.8.1 Procedures for Minor Programs

If you want to register for a Minor program, you must complete a Minor Approval form (usually at the beginning of your U2 year), and return it duly completed to the Student Affairs Office. The Minor program will then be added to your record and will automatically continue each year unless you officially cancel it in writing. If you want to cancel the Minor, you must notify both the Minor Adviser and the Student Affairs Office. The Minor Approval form is available on the Faculty website and in the Student Affairs Office, Laird Hall, Room 106.

2.4.5.9 Course Change Information

1. Courses: please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.8: Course Change Period](#)*, and the Important Dates website www.mcgill.ca/importantdates.
2. Course withdrawal (Transcript notation of "W"): please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.9: Regulations Concerning Course Withdrawal](#)*, and the Important Dates website www.mcgill.ca/importantdates.
3. Other changes: information about changes may be obtained from the Student Affairs Office of the Faculty.

2.4.5.10 Graduate Courses Available to Undergraduates

Undergraduates who want to take graduate courses must have a cumulative grade point average (CGPA) of at least 3.20. Final approval must be obtained from Enrolment Services. Be advised that graduate courses taken for credit toward an undergraduate degree will not be credited toward a graduate program.

2.4.5.11 Attendance and Conduct in Class

Matters of discipline connected with, or arising from, the general arrangement for teaching are under the jurisdiction of the Dean of the Faculty.

Students may be admonished by a professor or instructor for dishonest or improper conduct. If disciplinary action is required, it must be reported to the Associate Dean (Student Affairs).

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students.

2.4.5.12 Incomplete Grades

An instructor who believes that there is justification for a student to delay submitting term work may extend the deadline until after the end of the course. In this case, the instructor will submit a grade of K (incomplete), indicating the date by which the work is to be completed. The maximum extensions for the submission of grades to the Student Affairs Office are as follows:

Students graduating in June

Fall courses	January 15
Winter courses, and courses spanning Fall/Winter	April 30

Non-graduating students

Fall courses	January 15
Winter courses, and courses spanning Fall/Winter	May 15

Students' deadlines for submitting their work must be sufficiently in advance of these dates to ensure that the work can be graded and the mark submitted on time. It is important to note that instructors may impose earlier deadlines than those listed above.

If instructors have not submitted marks to clear Ks to the Student Affairs Office by the above dates, the K is automatically changed to a KF and counts as an F in the GPA.

Students with a grade of K who have serious extenuating circumstances may request an extension of the K deadline (KE) from the Associate Dean (Student Affairs). Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Records > [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#)* for more information about grading and credit.

2.4.5.13 Examinations

You should refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.6: Examinations: General Information](#)* for information about final examinations and deferred examinations. Examination schedules are posted on the McGill website, www.mcgill.ca, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Exam Schedule.

Every student has a right to write essays, examinations, and theses in English or in French except in courses where knowledge of a language is one of the objectives of the course.

Oral presentations made as part of course requirements are in English.

2.4.5.13.1 Reassessments and Rereads

In accordance with the *Charter of Student Rights*, and subject to its stated conditions, you have the right to consult any written submission for which you have received a mark. You also have the right to discuss this submission with the examiner.

If, after discussion with your instructor, you want to have a formal final examination reread, you must apply in writing to the Associate Dean (Student Affairs). The following conditions apply:

- grades may be either raised or lowered as the result of a reread;
- rereads in courses outside the Faculty of Agricultural and Environmental Sciences are subject to the deadlines, rules, and regulations of the relevant faculty.

Application for rereads must be made by March 31 for Fall term courses and by September 30 for Winter term and Summer term courses. You are assessed a fee for formal rereads. Any request to have term work re-evaluated must be made directly to the instructor concerned.

Any request to have in-course submissions reassessed must be made within 10 working days after the graded material has been made available to you.

2.4.5.13.2 Deferred Examinations

The Faculty offers deferred exams for medical reasons and exceptional circumstances (to be approved by the Associate Dean (Student Affairs)) for the Fall and Winter periods. Verify dates on the Important Dates website at www.mcgill.ca/importantdates, apply on Minerva, and provide medical documentation to the Student Affairs Office.

2.4.5.14 Degree Requirements

To be eligible for a B.Eng.(Bioresource), B.Sc.(Ag.Env.Sc.), B.Sc.(F.Sc.), or Concurrent B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) degree, you must have passed, or achieved exemption, with a minimum grade of C in all required and complementary courses of the program. You must also have a CGPA of at least 2.00.

In addition, if you are a student in the Dietetics program, you must have completed the Stages of professional formation requiring a CGPA of 3.00.

You must have completed all Faculty and program requirements; see [section 2.4.5.1: Minimum Credit Requirement](#) in this publication.

In order to qualify for a McGill degree, you must complete a minimum residency requirement of 60 credits at McGill. If you are in the B.Sc.(Ag.Env.Sc.), you must take a minimum of two-thirds of your course credits within the Faculty of Agricultural and Environmental Sciences.

2.4.5.15 Dean's Honour List

For information on the designation of Dean's Honour List awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.1: Graduation Honours: Dean's Honour List](#)*.

2.4.5.16 Distinction

For information on the designation of Distinction awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.2: Graduation Honours: Distinction](#)*.

2.4.5.17 Honours and First Class Honours

Departments may recommend to the Faculty that graduating students registered in an honours program be awarded Honours or First-Class Honours under the following conditions:

- you must complete all honours program requirements; for Honours, the CGPA at graduation must be at least 3.00;
- for First-Class Honours, the CGPA at graduation must be at least 3.50;
- some programs may impose additional requirements, which must be met before you are recommended for Honours or First-Class Honours.

Students in an honours program whose CGPA is below 3.00, or who did not satisfy certain program requirements, must consult their academic adviser to determine their eligibility to graduate in a program other than Honours.

2.4.5.18 Scholarships, Bursaries, Prizes, and Medals

Various scholarships, bursaries, prizes, and medals are open to entering, in-course, and graduating students. No application is required. Full details of these are set out in the *Undergraduate Scholarships and Awards Calendar*, available at www.mcgill.ca/students/courses/calendars.

2.5 Overview of Programs Offered by the Faculty of Agricultural and Environmental Sciences

The Faculty of Agricultural and Environmental Sciences and the School of Dietetics and Human Nutrition offer degrees in Bachelor of Science (Agricultural and Environmental Sciences), Bachelor of Engineering (Bioresource Engineering), Bachelor of Science (Food Science), Bachelor of Science (Nutritional Sciences), Concurrent degree program in Food Science and Nutritional Sciences, Certificate in Food Science, Certificate in Ecological Agriculture, Diploma in Environment, and Diploma of Collegial Studies in Farm Management and Technology.

The Faculty of Agricultural and Environmental Sciences is one of the four faculties in partnership with the McGill School of Environment.

Several programs offered by the Faculty and School lead toward professional accreditation. These include the Dietetics Major (membership in the Dietitians of Canada and the *Ordre professionnel des diététistes du Québec*); the Agricultural Economics Major and the Agro-Environmental Sciences Major (membership in the *Ordre des agronomes du Québec* and other provincial Institutes of Agriculture); Bioresource Engineering (membership as a professional engineer in any province of Canada plus the *Ordre des agronomes du Québec*); and Food Science (accreditation by the Institute of Food Technologists and professional accreditation by the *Ordre des chimistes du Québec*). Professional Practice experiences to complete the Dietetics practicum are provided in the McGill teaching hospitals and in a wide variety of health, education, business, government, and community agencies.

The Faculty also offers M.Sc. and Ph.D. programs in the areas of Agricultural Sciences, Biological Sciences, Bioresource Engineering, Biotechnology, Environmental Sciences, Food Science, and Nutritional Sciences. M.Sc.(Applied) programs are offered in some disciplines. In addition, a Graduate Certificate in Biotechnology, a Graduate Diploma in Dietitian Credentialing, a Graduate Certificate in Bioinformatics, and a Graduate Option in Environment are offered.

Programs Offered by the Faculty of Agricultural and Environmental Sciences

[section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#)

Programs Offered by the Faculty of Agricultural and Environmental Sciences

[section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#)

[section 2.6.4: Bachelor of Science \(Food Science\) - B.Sc.\(F.Sc.\)](#)

[section 2.6.5: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#)

[section 2.5.7: Concurrent Bachelor of Science in Food Science – B.Sc.\(F.Sc.\) and Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\)](#)

[section 2.5.8: Honours Program](#)

[section 2.5.9: Minor Programs](#)

[section 2.5.10: Post-Baccalaureate Certificate Programs](#)

[section 2.5.11: Diploma Program \(Undergraduate\)](#)

[section 2.5.12: Diploma in Collegial Studies](#)

[section 2.5.13: Environmental Sciences Programs](#)

2.5.1 Internship Opportunities and Co-op Experience**2.5.1.1 FAES 200 / FAES 300 Internship Program**

As a full-time undergraduate student (with a CGPA of 2.9 or higher) in one of the following programs: B.Sc.(Ag.Env.Sc.), B.Sc.(F.Sc.), or B.Eng.(Bioresource), you have the opportunity to participate in the Internship program. It's a non-credit (Pass/Fail only) course, where you can intern in a place related to your field of study.

The internship should be a minimum length of 10 weeks, with the student working 35 hours a week or more. Internships allow students to gain practical, hands-on experience and develop skill sets that are frequently in high demand by employers.

2.5.1.2 AGRI 310 Internship in Agriculture/Environment

The objective of AGRI 310 is to give you experience working in an enterprise that is related to your field of study, and to find out how your studies can contribute to your understanding and performance in the workplace environment. Through observations of the enterprise function, the decision-making process and the economic constraints, you should obtain a better understanding of the technical, economic, and social challenges faced by enterprises working in your chosen field of study.

2.5.1.3 AGRI 410D1 and AGRI 410D2 Internship and Co-op Experience

As a qualified student in the B.Sc.(Ag.Env.Sc.), you have the opportunity to participate in a summer-long internship related to your field of study. If you aspire to become a professional agrologist, you will be required to complete an internship under the supervision of a professional agrologist.

AGRI 410 is part of the professional agrology specialization and is obligatory for students wanting to become professional agrologists (*agronomes*) in Quebec as part of the 6 credits of practical training required by the *Ordre des agronomes du Quebec*.

Most undergraduate programs offered in the Faculty include the opportunity for a co-op work experience. Internships and co-op experience both involve a work placement of 12 to 16 weeks' duration where you are exposed to the main areas of operation of your employer. Each work placement is unique, and you benefit from a program developed exclusively for you by both your employer and your instructor.

When you register for an internship or co-op experience, you benefit from the practical learning that you undergo during your work term in a meaningful job situation. As well, you benefit from the non-tangible learning experience that comes from the increased responsibilities needed to acquire and successfully complete your work term.

You also have the opportunity to pursue a 6-credit internship within the Barbados and Panama Field Studies semesters. For details, see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > Study Abroad Options > [section 8.2.3: Field Study Semesters and Off-Campus Courses](#)*.

2.5.2 Exchange Programs

The Faculty of Agricultural and Environmental Sciences participates in all University-wide student exchange programs available at McGill and also has Faculty-specific exchange programs. For more information, see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > [section 8.8: Exchange Programs](#)*.

2.5.3 Bachelor of Science in Agricultural and Environmental Sciences – B.Sc.(Ag.Env.Sc.)

See [section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#) for details.

2.5.3.1 Major Programs

Graduates of programs marked with an asterisk (*) are eligible for membership in the *Ordre des agronomes du Québec* and other provincial institutes of agriculture.

Major Programs

Agricultural Economics*

Agro-Environmental Sciences*

Environment, under McGill School of Environment:

- Biodiversity and Conservation Domain
- Ecological Determinants of Health Domain
- Environmetrics Domain
- Food Production and Environment Domain
- Land Surface Processes and Environmental Change Domain
- Renewable Resource Management Domain
- Water Environments and Ecosystems Domain

Environmental Biology

International Agriculture and Food Systems

Life Sciences (Biological and Agricultural)

2.5.3.2 Specializations for Major Programs in the B.Sc.(Ag.Env.Sc.)

Specializations for the major programs listed above in Agro-Environmental Sciences; Environmental Biology; International Agriculture and Food Systems; and Life Sciences (Biological and Agricultural).

Specializations for Major Programs in the B.Sc.(Ag.Env.Sc.)

Agribusiness

Animal Biology

Animal Health and Disease

Animal Production

Applied Ecology

Ecological Agriculture

Environmental Biology** (Multidisciplinary) (*closed to further admissions*)

Environmental Economics

International Agriculture

Life Sciences (Multidisciplinary)

Microbiology and Molecular Biotechnology

Plant Biology

Plant Production

Professional Agrology

Soil and Water Resources

Wildlife Biology

** Consult the 2011–2012 *Programs, Courses and University Regulations* publication at www.mcgill.ca/study/2011-2012 or previous Calendars at www.mcgill.ca/students/courses/calendars for program requirements, or consult your academic adviser.

2.5.4 Bachelor of Engineering in Bioresource Engineering – B.Eng.(Bioresource)

See [section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#) for details.

The program leads to eligibility in any provincial professional engineering order. The Professional Agrology Option leads to eligibility in the *Ordre des agronomes du Québec*.

Bioresource Engineering:

Agricultural Engineering Stream
 Bio-Environmental Engineering Stream
 Ecological Engineering Stream
 Food and Bioprocess Engineering Stream
 Soil and Water Engineering Stream
 Professional Agrology Option

2.5.5 Bachelor of Science in Food Science – B.Sc.(F.Sc.)

See [section 2.6.4: Bachelor of Science \(Food Science\) - B.Sc.\(F.Sc.\)](#) for details.

Food Science:

Food Chemistry Option
 Food Science Option

2.5.6 Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.)

Two majors are offered by the School of Dietetics and Human Nutrition. See [section 2.6.5: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#) for details.

Nutritional Sciences:

Dietetics (professional program leading to professional licensing as Dietitian/Nutritionist)

Nutrition:

Food Function and Safety
 Global Nutrition
 Nutritional Biochemistry
 Sports Nutrition

2.5.7 Concurrent Bachelor of Science in Food Science – B.Sc.(F.Sc.) and Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.)

See [section 2.6.4.3: Concurrent Bachelor of Science in Food Science \(B.Sc.\(F.Sc.\)\) and Bachelor of Science Nutritional Sciences \(B.Sc.\(Nutr.Sc.\)\) - Food Science/Nutritional Science Major \(Concurrent\) \(122 credits\)](#) for details.

Food Science and Nutritional Sciences:

Food Science / Nutritional Science

2.5.8 Honours Program

Honours Program

Environment, under *Programs, Courses and University Regulations > Faculties & Schools > [McGill School of Environment](#)*

2.5.9 Minor Programs

Minor Programs

Agricultural Economics – [section 2.6.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Agricultural Economics \(24 credits\)](#)

Minor Programs

Agricultural Production – [section 2.6.6.3: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Agricultural Production \(24 credits\)](#)

Animal Biology – [section 2.6.6.4: Minor Animal Biology \(24 credits\)](#)

Animal Health and Disease – [section 2.6.6.5: Minor Animal Health and Disease \(24 credits\)](#)

Applied Ecology – [section 2.6.6.6: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Applied Ecology \(24 credits\)](#)

Ecological Agriculture – [section 2.6.6.7: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Ecological Agriculture \(24 credits\)](#)

Environmental Engineering – [section 2.6.6.8: Minor in Environmental Engineering](#)

Human Nutrition – [section 2.6.6.9: Minor Human Nutrition \(24 credits\)](#)

International Agriculture – [section 2.6.6.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor International Agriculture \(24 credits\)](#)

Minor in Environment – see *Programs, Courses and University Regulations > Faculties & Schools > [McGill School of Environment](#)*

2.5.10 Post-Baccalaureate Certificate Programs

The Faculty offers the following post-baccalaureate certificate programs.

Post-Baccalaureate Certificate Programs

Bioinformatics

Ecological Agriculture

Food Science

2.5.11 Diploma Program (Undergraduate)

Diploma Program (Undergraduate)

Diploma in Environment, under *Programs, Courses and University Regulations > Faculties & Schools > [McGill School of Environment](#)*

2.5.12 Diploma in Collegial Studies

Diploma in Collegial Studies

[section 2.8: Farm Management and Technology Program](#)

2.5.13 Environmental Sciences Programs

2.5.13.1 McGill School of Environment (MSE)

The MSE is a joint initiative of the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, the Faculty of Science, and the Faculty of Law. It offers a B.Sc.(Ag.Env.Sc.) Major in Environment, a B.Sc. Major in Environment, a B.A. & Sc. Interfaculty Program in Environment, a B.A. in Environment, a Minor in Environment and a Diploma in Environment. The MSE programs allow you to choose to study on both the Macdonald and Downtown campuses.

A list of the B.Sc.(Ag.Env.Sc.) domains is given under [section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#). Further information on all programs is given under *Programs, Courses and University Regulations > Faculties & Schools > [McGill School of Environment](#)* and on the MSE website: www.mcgill.ca/mse.

2.5.13.2 Environmental Programs on the Macdonald Campus

A number of integrated environmental science programs are also offered on the Macdonald campus, particularly within the B.Sc.(Ag.Env.Sc.) and B.Eng.(Bioresource) degrees. The objective of these interdepartmental programs is to provide you with a well-rounded training in a specific interdisciplinary subject as well as the basis for managing natural resources. For a complete list of the programs, see [section 2.5: Overview of Programs Offered by the Faculty of Agricultural and Environmental Sciences](#).

2.6 Academic Programs

Degree programs at the undergraduate level in the Faculty may lead to a B.Sc. degree in Agricultural and Environmental Sciences (Ag.Env.Sc.), Food Science (F.Sc.), Nutritional Sciences (Nutr.Sc.), or a B.Eng. degree in Bioresource Engineering. The Faculty also offers students the possibility of doing concurrent B.Sc. degrees in both Food Science and Nutritional Sciences.

2.6.1 Freshman Major

Program Director

Dr. Marcia Knutt
Macdonald-Stewart Building, Room 1-022
Telephone: 514-398-7976

The Freshman Program is designed to provide a basic science foundation to students entering university for the first time from a high school system (outside of the Quebec CEGEP system). The Freshman year consists of at least 30 credits in Fundamental Math and Science courses as preparation for one of the following degree programs:

- B.Sc. (Agricultural & Environmental Sciences)
- B.Eng. (Bioresource)
- B.Sc. (Nutritional Sciences)
- B.Sc. (Food Science)
- Concurrent B.Sc. (Food Science) and B.Sc. (Nutritional Sciences)

Students who have completed the Diploma of Collegial Studies, Advanced Placement Exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill Placement examinations may receive exemption and/or credit for all or part of the Basic Science courses in biology, chemistry, physics and mathematics. Similarly, students who have completed courses at other universities or colleges may receive exemptions and/or credits. Students should consult with the Faculty's Student Affairs Office.

2.6.1.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Freshman Program (30 credits)

(All majors except Agricultural Economics - see Advising Notes below*)

If you are entering university for the first time from a high school system, outside of the Quebec CEGEP system, you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the freshman year you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-Calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Alice Cherestes

Macdonald-Stewart Building, Room 1-023

Telephone: 514-398-7980

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGRI 195	(.5)	Freshman Seminar 1

Required Courses - Winter (12.5 credits)

AECH 111	(4)	General Chemistry 2

AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2
AGRI 196	(.5)	Freshman Seminar 2

Elective - Winter (3 credits)

B.Sc. (Ag. & Env. Sci.) - Agricultural Economics Major - Freshman Program (30 credits)

If you are entering university for the first time from a high school system, outside of the Quebec CEGEP system, you will be required to complete a Freshman year of at least 30 credits as listed below.

Note: If you are not certain that you have adequate math and/or physics skills to commence the Freshman year you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Alice Cherestes

Macdonald-Stewart Building, Room 1-023

Telephone: 514-398-7980

Required Courses - Fall (14 credits)

AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGEC 200**	(3)	Principles of Microeconomics

Required Courses - Winter (10 credits)

AEBI 122	(3)	Cell Biology
AEHM 205	(3)	Science Literacy
AEMA 102	(4)	Calculus 2

Complementary Courses - Winter (6 credits)

One of the following:

BREE 103	(3)	Linear Algebra
NUTR 301	(3)	Psychology

One of the following:

AGEC 201**	(3)	Principles of Macroeconomics
AGEC 231**	(3)	Economic Systems of Agriculture

Advising Notes:

* Freshman students intending to major in Agricultural Economics in the B.Sc. (Ag. & Env. Sci.) degree program should note that the courses AEBI 120 (General Biology), AECH 111 (General Chemistry 2), and AEPH 114 (Introductory Physics 2) are required for all other majors in the B.Sc. (Ag. & Env. Sci.) degree. Students who are uncertain about their choice of major should be completing the "regular" Agricultural & Environmental Sciences Freshman program; the AGECE 200/201 courses would then be taken as part of the "regular" U1 curriculum should they ultimately decide on the Agricultural Economics Major.

** Freshman students planning to choose the Agricultural Economics Major will still be required to complete 90 credits in the Major. Since AGECE 200 and AGECE 201/AGECE 231 are normally required in the U1 year of the program, students who take these courses in their freshman year will be required to substitute 6 other credits. Students should discuss suitable replacement courses with their adviser.

2.6.1.2 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Freshman Program (30 credits)

If you are entering university for the first time from a high school system (outside of the Quebec CEGEP system) you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the freshman year you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your Freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Marcia Knutt

Macdonald-Stewart Building, Room 1-022

Telephone: 514-398-7976

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 113	(4)	Physics 1
BREE 187	(.5)	Freshman Seminar 1

Required Courses - Winter (15.5 credits)

AECH 111	(4)	General Chemistry 2
AEMA 102	(4)	Calculus 2
AEPH 115	(4)	Physics 2
BREE 103	(3)	Linear Algebra
BREE 188	(.5)	Freshman Seminar 2

2.6.1.3 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Freshman Program (30 credits)

If you are entering university for the first time from a high school system (outside of the Quebec CEGEP system), you will be required to complete a freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the Freshman year, you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your Freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Alice Cherestes

Macdonald-Stewart Building, Room 1-023

Telephone: 514-398-7980

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGRI 195	(.5)	Freshman Seminar 1

Required Courses - Winter (12.5 credits)

AECH 111	(4)	General Chemistry 2
AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2
AGRI 196	(.5)	Freshman Seminar 2

Elective - Winter (3 credits)

2.6.1.4 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Freshman Program (30 credits)

If you are entering university for the first time from a high school system (outside of the Quebec CEGEP system) you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Students require a minimum 2.50 CGPA in order to progress into Year 1 of the Dietetics program.

Note: If you are not certain that you have adequate math and/or physics skills to commence the Freshman year, you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Alice Cherestes

Macdonald-Stewart Building, Room 1-023

Telephone: 514-398-7980

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGRI 195	(.5)	Freshman Seminar 1

Required Courses - Winter (15.5 credits)

AEBI 122	(3)	Cell Biology
AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2
AGRI 196	(.5)	Freshman Seminar 2
FDSC 230	(4)	Organic Chemistry

2.6.1.5 Concurrent Bachelor of Science Food Science (B.Sc. (F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc. (Nutr.Sc.)) - Freshman Program (Concurrent) (30 credits)

These freshman requirements apply to students in the Concurrent Bachelor of Science Food Science (B.Sc. (F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc. (Nutr.Sc.)) degree program.

If you are entering university for the first time from a high school system (outside of the Quebec CEGEP system), you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the Freshman year, you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined

during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

Freshman Adviser: Dr. Alice Cherestes

Macdonald-Stewart Building, Room 1-023

Telephone: 514-398-7980

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGRI 195	(.5)	Freshman Seminar 1

Required Courses - Winter (15.5 credits)

AEBI 122	(3)	Cell Biology
AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2
AGRI 196	(.5)	Freshman Seminar 2
FDSC 230	(4)	Organic Chemistry

2.6.2 Bachelor of Science (Agricultural and Environmental Sciences) – B.Sc.(Ag.Env.Sc.)

2.6.2.1 General rules for the following B.Sc.(Ag.Env.Sc.) programs

Students register in one **major** and at least one **specialization**. They may design their own program by choosing one of the four majors and at least one of the specializations. By choosing two different specializations, students have the option of developing their own interdisciplinary interests. The multidisciplinary specializations are designed for those interested in broad training.

All the required and complementary courses for the major must be completed in full. Within each specialization, at least 18 credits must be unique, i.e., they only count for that specialization and do not overlap with either the major or a second specialization. At least 12 credits must be from 400-level courses or higher.



Note: Below the program description for each major is a suggested list of specializations that complement the major.

Majors:

- Agricultural Economics
- Agro-environmental Sciences
- Environmental Biology
- International Agriculture and Food Systems
- Life Sciences (Biological and Agricultural)
- Major in Environment (see *Programs, Courses and University Regulations* > *Faculties & Schools* > [McGill School of Environment](#) > [section 7.10: Major in Environment – B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#))

Specializations:

- Agribusiness, [section 2.6.2.7.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Agribusiness \(24 credits\)](#)
- Animal Biology, [section 2.6.2.7.3: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Biology \(24 credits\)](#)
- Animal Health and Disease, [section 2.6.2.7.4: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Health and Disease \(24 credits\)](#)
- Animal Production, [section 2.6.2.7.5: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Production \(24 credits\)](#)
- Applied Ecology, [section 2.6.2.7.6: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Applied Ecology \(24 credits\)](#)
- Ecological Agriculture, [section 2.6.2.7.7: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Ecological Agriculture \(24 credits\)](#)

- Environmental Economics, [section 2.6.2.7.8: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Environmental Economics \(24 credits\)](#)
- International Agriculture, [section 2.6.2.7.9: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - International Agriculture \(24 credits\)](#)
- Life Sciences (Multidisciplinary), [section 2.6.2.7.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Life Sciences \(Multidisciplinary\) \(24 credits\)](#)
- Microbiology and Molecular Biotechnology, [section 2.6.2.7.11: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Microbiology and Molecular Biotechnology \(24 credits\)](#)
- Plant Biology, [section 2.6.2.7.12: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Plant Biology \(24 credits\)](#)
- Plant Production, [section 2.6.2.7.13: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Plant Production \(24 credits\)](#)
- Professional Agrology, [section 2.6.2.7.14: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Professional Agrology \(21 credits\)](#)
- Soil and Water Resources, [section 2.6.2.7.15: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Soil and Water Resources \(24 credits\)](#)
- Wildlife Biology, [section 2.6.2.7.16: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Wildlife Biology \(24 credits\)](#)

2.6.2.2 B.Sc.(Ag.Env.Sc.) – Agricultural Economics Major

Program Director: Profesor John Henning
Macdonald-Stewart Building, Room 3-038
Telephone: 514-398-7826

2.6.2.2.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Agricultural Economics (42 credits)

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Required Courses (33 credits)

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGEC 320	(3)	Intermediate Microeconomic Theory
AGEC 330	(3)	Agriculture and Food Markets
AGEC 333	(3)	Resource Economics
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 491	(3)	Research & Methodology
ENVB 210	(3)	The Biophysical Environment

Complementary Courses (9 credits)

With the approval of the Academic Adviser, one introductory course in each of the following areas:

Accounting

Statistics

Written/Oral Communication

Specialization (21 - 24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

- *Agribusiness (24 credits)

- Environmental Economics (24 credits)

- *Professional Agrology (21 credits)

*Membership to the OAQ requires successful completion of these two specializations.

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Academic Programs > Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.) > Specializations", in this publication.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.3 B.Sc.(Ag.Env.Sc.) – Agro-Environmental Sciences Major

Program Director: Professor Roger I. Cue

Academic Adviser: Dr. Julie Major

Raymond Building, Room 2-021c

Telephone: 514-398-8380

2.6.2.3.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Agro-Environmental Sciences (42 credits)

This Major is focused on the idea that agricultural landscapes are managed ecosystems, and that humans engaged in agriculture must maintain the highest possible environmental standards while providing food and other bioproducts to the marketplace. The Major core focuses on the basic and applied biology of cultivated plants, domestic animals, arable soils, and the economics of agriculture. Students then choose one or two specializations in these or connected disciplines that reflect their interests and career goals.

The program has a strong field component that includes hands-on laboratories, visits to agricultural enterprises, and opportunities for internships. Classes and laboratories exploit the unique setting and facilities of the Macdonald Campus and Farm, which is a fully functioning farm in an urban setting that exemplifies many of the issues at the forefront of modern agricultural production. Graduates of this program are eligible to become members of the Ordre des agronomes du Québec.

Program Director: Professor Roger Cue

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

Required Courses (36 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGRI 215	(3)	Agro-Ecosystems Field Course
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
SOIL 315	(3)	Soil Fertility and Fertilizer Use

Complementary Courses (6 credits)

6 credits of complementary courses selected as follows:

One of:

PLNT 300	(3)	Cropping Systems

PLNT 302 (3) Forage Crops and Pastures

One of:

ANSC 451 (3) Dairy and Beef Production Management

ANSC 458 (3) Swine and Poultry Production

Specialization

Choose at least one specialization of 18-24 credits.

Specializations designed to be taken with the Agro-Environmental Sciences Major:

- Animal Production
- Ecological Agriculture
- Plant Production
- *Professional Agrology
- Soil and Water Resources

* Membership to the OAQ requires students successfully complete one of the above specializations in addition to the Professional Agrology Specialization.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.4 B.Sc.(Ag.Env.Sc.) – Environmental Biology Major

Program Director: Professor Chris Buddle

Academic Adviser: Dr. Julie Major

Raymond Building, Room 2-021c

Telephone: 514-398-8380

2.6.2.4.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Environmental Biology (42 credits)

The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change. Environmental Biology has significant field components worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

Program Director: Professor Christopher Buddle

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for information on prerequisites and minimum credit requirements.

Required Courses (30 credits)

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
AEBI 212	(3)	Evolution and Phylogeny
AEHM 205	(3)	Science Literacy
AEMA 310	(3)	Statistical Methods 1
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems

ENVB 410	(3)	Ecosystem Ecology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1

Complementary Courses (12 credits)

12 credits of complementary courses selected from:

ENTO 330	(3)	Insect Biology
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population & Community Ecology
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 315	(3)	Science of Inland Waters
ENVB 430	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
ENVB 497	(3)	Research Project 1
ENVB 498	(3)	Research Project 2
ENVB 506	(3)	Quantitative Methods: Ecology
ENVR 203	(3)	Knowledge, Ethics and Environment
LSCI 230	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates

Specialization

At least one specialization of 18-24 credits.

Specializations designed to be taken with the Environmental Biology Major:

- Applied Ecology
- Plant Biology
- Wildlife Biology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, refer to "Academic Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations", in this publication. Consult the Academic Adviser for approval of specializations other than those listed above.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.5 B.Sc.(Ag.Env.Sc.) – International Agriculture and Food Systems Major

Program Director: Professor Humberto Monardes

Academic Adviser: Dr. Julie Major

Raymond Building, Room 2-021c

Telephone: 514-398-8380

2.6.2.5.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major International Agriculture and Food Systems (42 credits)

This program is directed at students who seek conceptual understanding of the scope of and inter-relationships among the environmental, economic, and socio-cultural factors that shape the nature of developing country food systems as well as scientific competence in the ways in which agriculture can help define sustainable solutions to critical problems defined by food insecurity, malnutrition, poverty, and ecological health. Students will be given general preparation sufficient for participation in project management and policy development together with a foundation adequate both for working alongside a range of development specialists and for subsequent acquisition of specific expertise in components of agricultural and food science. The program couples a common core of scientific and development-related courses and allows students to seek further depth in development-related courses in either the social sciences or natural sciences.

Program Director: Professor Humberto Monardes

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Required Courses (15 credits)

AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 493	(3)	International Project Management
INTD 200	(3)	Introduction to International Development

Complementary Courses (27 credits)

Complementary Course A (3 credits)

One of:

AGRI 490	(3)	Agri-Food Industry Project
AGRI 499	(3)	Agricultural Development Internship

Complementary Courses B (9 credits)

AEBI 210	(3)	Organisms 1
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
FDSC 200	(3)	Introduction to Food Science

Streams

Choose either the Natural Science or Social Science stream (9 credits).

Natural Science Stream

Complementary Course C1.1 (3 credits)

LSCI 211	(3)	Biochemistry 1

Complementary Course C1.2 (3 credits)

Choose one of:

LSCI 202	(3)	Molecular Cell Biology

LSCI 204 (3) Genetics

Complementary Course C1.3 (3 credits)

Choose one of:

ANSC 234 (3) Biochemistry 2
LSCI 230 (3) Introductory Microbiology

Social Science Stream

Complementary Course C2.1 (3 credits)

Choose one of:

AGEC 430 (3) Agriculture, Food and Resource Policy
AGEC 442 (3) Economics of International Agricultural Development

Choose two of the following three complementary course sets (6 credits):

Complementary Courses C2.2 (3 credits)

Choose one of:

GEOG 205 (3) Global Change: Past, Present and Future
GEOG 210 (3) Global Places and Peoples
GEOG 216 (3) Geography of the World Economy
NRSC 221 (3) Environment and Health

Complementary Course C2.3 (3 credits)

Choose one of:

ANTH 202 (3) Socio-Cultural Anthropology
ANTH 204 (3) Anthropology of Meaning
ANTH 206 (3) Environment and Culture

Complementary Course C2.4 (3 credits)

Choose one of:

POLI 243 (3) International Politics of Economic Relations
SOCI 210 (3) Sociological Perspectives
SOCI 225 (3) Medicine and Health in Modern Society
SOCI 234 (3) Population and Society
SOCI 254 (3) Development and Underdevelopment

Choose 6 credits from one of the following International Development Studies domains:

Economic Development and Living Standards

Environment Agricultural Resources

Specialization (18-24 credits)

Students must also complete at least one specialization of 18-24 credits. Specializations suggested to be taken with the International Agriculture and Food Systems Major:

- Ecological Agriculture
- International Agriculture

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, refer to "Academic Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations", in this publication. Consult the Academic Adviser for approval of specializations other than those listed above.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.6 B.Sc.(Ag.Env.Sc.) – Life Sciences (Biological and Agricultural) Major

Program Director: Professor Brian Driscoll
Macdonald-Stewart Building, Room 3-035
Telephone: 514-398-7887

Academic Adviser: Dr. Julie Major
Raymond Building, Room 2-021c
Telephone: 514-398-8380

2.6.2.6.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Life Sciences (Biological and Agricultural) (42 credits)

The Life Sciences (Biological and Agricultural) Major provides a strong foundation in the basic biological sciences. It will prepare graduates for careers in the agricultural, environmental, health, and biotechnological fields. Graduates with high academic achievement may go on to postgraduate studies in research, or professional programs in the biological, veterinary, medical, and health sciences fields.

Program Director: Professor Brian Driscoll

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Required Courses (27 credits)

* Other appropriate Statistics courses may be approved as substitutes by the Program Director.

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
AEBI 212	(3)	Evolution and Phylogeny
AEHM 205	(3)	Science Literacy
AEMA 310*	(3)	Statistical Methods 1
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

Complementary Courses (15 credits)

15 credits of the complementary courses selected from:

AEHM 330	(3)	Academic and Scientific Writing
ANSC 234	(3)	Biochemistry 2
ANSC 250	(3)	Principles of Animal Science
ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology

ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 330	(3)	Fundamentals of Nutrition
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
BINF 301	(3)	Introduction to Bioinformatics
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems
LSCI 451	(3)	Research Project 1
LSCI 452	(3)	Research Project 2
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
PLNT 304	(3)	Biology of Fungi
PLNT 353	(3)	Plant Structure and Function
PLNT 426	(3)	Plant Ecophysiology
PLNT 435	(3)	Plant Breeding
WILD 375	(3)	Issues: Environmental Sciences
WILD 424	(3)	Parasitology

Specialization

At least one specialization of 18-24 credits from:

Specializations designed to be taken with the Life Sciences (Biological and Agricultural) Major:

- Animal Biology
- Animal Health and Disease
- Life Sciences (Multidisciplinary)
- Microbiology and Molecular Biotechnology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Academic Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations", in this publication.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.7 Specializations

2.6.2.7.1 B.Sc.(Ag.Env.Sc.) – Specializations to be taken with one of the B.Sc.(Ag.Env.Sc.) majors

Each specialization consists of 24 credits of courses (required and complementary) that provide a coherent package designed to prepare students for a future in a given discipline. Students will select at least one specialization. However, students wishing to broaden their training have the option of choosing to do two. Although the list of suggested specializations appears under each major in the programs section, students interested in other specializations should consult with their academic adviser/specialization coordinator.

2.6.2.7.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Agribusiness (24 credits)

The development of commercial agriculture relies on a large supporting sector of manufacturing and service companies involved in the supply of inputs to farming and the transportation, processing, and marketing of agricultural and food products.

This 24-credit specialization includes courses in agricultural sciences, agribusiness, and courses at the Desautels Faculty of Management.

This specialization is limited to students in the Major in Agricultural Economics.

Specialization Adviser: Professor John Henning

Macdonald-Stewart Building, Room 3-038

Telephone: 514-398-7826

Required Courses (15 credits)

AEBI 210	(3)	Organisms 1
AGEC 242	(3)	Management Theories and Practices
AGEC 332	(3)	Farm Management and Finance
AGEC 450	(3)	Agriculture Business Management
ANSC 250	(3)	Principles of Animal Science

Complementary Courses (9 credits)

9 credits chosen from the following list:

ACCT 361	(3)	Management Accounting
AGRI 310	(3)	Internship in Agriculture/Environment
BUSA 364	(3)	Business Law 1
MGCR 341	(3)	Finance 1
MGCR 352	(3)	Marketing Management 1
MGCR 382	(3)	International Business
MGSC 373	(3)	Operations Research 1
ORGB 321	(3)	Leadership

2.6.2.7.3 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Biology (24 credits)

The specialization in Animal Biology is intended for students who wish to further their studies in the basic biology of large mammals and birds. Successful completion of the program should enable students to qualify for application to most veterinary colleges in North America, to study in a variety of postgraduate biology programs, and to work in many laboratory settings.

Specialization Coordinator: Professor Roger Cue

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 420	(3)	Animal Biotechnology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits selected from:

ANSC 251	(3)	Comparative Anatomy
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 330	(3)	Fundamentals of Nutrition

ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
LSCI 451	(3)	Research Project 1

2.6.2.7.4 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Health and Disease (24 credits)

This specialization is offered for students wishing to understand general animal physiology and function, the susceptibility of animals to various diseases, methods for limiting and controlling potential outbreaks, and the resulting implications for the animal, the consumer and the environment. It is an ideal choice for students interested in the care of animals, or in working in laboratories where diseases are being researched.

Specialization Coordinator: Professor Sarah Kimmins

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
MICR 341	(3)	Mechanisms of Pathogenicity
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits of complementary courses selected from:

ANSC 251	(3)	Comparative Anatomy
ANSC 330	(3)	Fundamentals of Nutrition
ANSC 350	(3)	Food-Borne Pathogens
LSCI 451	(3)	Research Project 1
PARA 410	(3)	Environment and Infection
WILD 311	(3)	Ethology
WILD 424	(3)	Parasitology

2.6.2.7.5 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Production (24 credits)

This specialization will be of interest to students who wish to study the improved efficiency of livestock production at the national and international levels. Students are exposed to animal nutrition, physiology, and breeding in a context that respects environmental concerns and animal-welfare issues. When taken in conjunction with the Major Agro-Environmental Sciences and the specialization in Professional Agriculture, it conforms with the eligibility requirements of the Ordre des agronomes du Québec.

Specialization Coordinator: Professor Arif Mustafa

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (21 credits)

ANSC 301	(3)	Principles of Animal Breeding
ANSC 312	(3)	Animal Health and Disease

ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 433	(3)	Animal Nutrition
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production

Complementary Course (3 credits)

One of:

ANSC 234	(3)	Biochemistry 2
ANSC 330	(3)	Fundamentals of Nutrition

2.6.2.7.6 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Applied Ecology (24 credits)

Food, water, air, the materials we use, and much of the diversity of life and recreation we enjoy are products of ecological systems. We manage ecosystems to provide these services and our use and misuse often degrades the ability ecosystems to provide the benefits and services we value. In the Applied Ecology minor you will develop your ability to understand how ecosystems function. You will apply systems thinking to the challenge of managing ecosystems for agriculture, forestry, fisheries, protected areas and urban development. Concepts and tools will be presented that help you to deal with the complexity that an ecosystem perspective brings. The goal of this minor is to provide students with an opportunity to further develop their understanding of the ecosystem processes, ecology, and systems thinking necessary to understand, design and manage our interaction with the environment.

Specialization Coordinator: Professor Elena Bennett

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (9 credits)

ENVB 305	(3)	Population & Community Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact

Complementary Courses (15 credits)

15 credits of complementary courses selected as follows:

A minimum of 6 credits are selected from the Abiotic list below:

AGRI 435	(3)	Soil and Water Quality Management
BREE 217	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 510	(3)	Watershed Systems Management
ENVB 301	(3)	Meteorology
ENVB 430	(3)	GIS for Natural Resource Management
ENVB 506	(3)	Quantitative Methods: Ecology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
SOIL 510	(3)	Environmental Soil Chemistry

A minimum of 6 credits are selected from the Biotic list below:

AGRI 340	(3)	Principles of Ecological Agriculture
ENTO 440	(3)	Insect Diversity
ENVB 315	(3)	Science of Inland Waters
MICR 331	(3)	Microbial Ecology
MICR 450	(3)	Environmental Microbiology
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

2.6.2.7.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Ecological Agriculture (24 credits)

This specialization focuses on the principles underlying the practice of ecological agriculture. When coupled with the Major in Environmental Biology, agriculture as a managed ecosystem that responds to the laws of community ecology is examined; when combined with the Major Agro-Environmental Sciences and the specialization in Professional Agrology, this specialization focuses more directly on the practice of ecological agriculture and conforms with the eligibility requirements of the Ordre des agronomes du Québec. It is suitable for students wishing to farm and do extension and government work, and those intending to pursue postgraduate work in this field.

Specialization Coordinator: Dr. Caroline Begg

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (6 credits)

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture

Complementary Courses (18 credits)

3 credits from:

ENVR 203	(3)	Knowledge, Ethics and Environment
RELG 270	(3)	Religious Ethics and the Environment

9-15 agronomic credits from:

* Note: offered in alternate years.

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGRI 310	(3)	Internship in Agriculture/Environment
AGRI 435	(3)	Soil and Water Quality Management
ENTO 352	(3)	Biocontrol of Pest Insects
PLNT 302	(3)	Forage Crops and Pastures
PLNT 312*	(3)	Urban Horticulture
PLNT 434	(3)	Weed Biology and Control
SOIL 326	(3)	Soils in a Changing Environment
SOIL 335*	(3)	Soil Ecology and Management

SOIL 342	(3)	Organic Soil Fertilization
SOIL 445*	(3)	Agroenvironmental Fertilizer Use

0-6 credits from the following:

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
MICR 331	(3)	Microbial Ecology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology

2.6.2.7.8 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Environmental Economics (24 credits)

This specialization integrates environmental sciences and decision making with the economics of environment and sustainable development. It is designed to prepare students for careers in natural resource management and the analysis of environmental problems and policies.

This specialization is limited to students in the Major Agricultural Economics.

Specialization Adviser: Professor John Henning

Macdonald-Stewart Building, Room 3-038

Telephone: 514-398-7826

Required Courses (9 credits)

ENVB 305	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
ENVB 506	(3)	Quantitative Methods: Ecology

Complementary Courses (15 credits)

At least 15 credits chosen from the following list:

AGRI 310	(3)	Internship in Agriculture/Environment
BREE 217	(3)	Hydrology and Water Resources
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 405	(3)	Natural Resource Economics
ENVB 301	(3)	Meteorology
ENVR 203	(3)	Knowledge, Ethics and Environment
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
WILD 415	(2)	Conservation Law
WILD 421	(3)	Wildlife Conservation

2.6.2.7.9 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - International Agriculture (24 credits)

Students enter this specialization to acquire a global and applied understanding of agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in the developing world. This program provides students with a combination of coursework at McGill together with a hands-on experience in a developing country, meeting locals and attending courses with McGill professors and/or local instructors. The costs of these field experiences may vary. The field experience (semester, short course or internship) includes developing projects in local communities, observing subsistence agriculture in situ and participating in various activities which contribute to sensitize the students to the challenges that developing countries face. Students study water resources, sustainable development, nutrition, planning and development, and a host of other fascinating topics, allowing them to sharpen their skills for future career opportunities.

Specialization Adviser: Professor Humberto Monardes

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (9 credits)

AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
NUTR 501	(3)	Nutrition in Developing Countries

Complementary Courses (15 credits)

15 credits of complementary courses selected from either Option A or Option B.

Option A

3 credits from husbandry/cropping/farming:

AGRI 215	(3)	Agro-Ecosystems Field Course
PLNT 203	(3)	Economic Botany
PLNT 300	(3)	Cropping Systems

Plus 3 credits from field experience:

AGRI 325	(3)	Sustainable Agriculture and Food Security
AGRI 499	(3)	Agricultural Development Internship

Plus 3 credits from policy and economics:

AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy

Plus 6 credits from resource/environment:

BREE 510	(3)	Watershed Systems Management
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation

Option B

15 credits from any of the McGill Field Study Semesters listed below:

Africa Field Study Semester (Winter)

15 credits selected as follows:

9 credits of courses chosen from the complementary course set offered in the year of participation in the Field Study Semester.

6 credits of required courses as listed below:

GEOG 416	(3)	Africa South of the Sahara
NRSC 405	(3)	Natural History of East Africa

Barbados Field Study Semester (Fall)

15 credits selected as follows:

AGRI 452	(3)	Water Resources in Barbados

AGRI 519	(6)	Sustainable Development Plans
URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Barbados Interdisciplinary Tropical Studies Field Semester (Summer)

15 credits selected as follows:

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

Panama Field Study Semester (Winter)

15 credits selected as follows:

9 credits of required courses

BIOL 553	(3)	Neotropical Environments
ENVR 451	(6)	Research in Panama

6 credits of complementary courses

Choose one of the following sets:

AGRI 550	(3)	Sustained Tropical Agriculture
HIST 510	(3)	Environmental History of Latin America (Field)

OR

GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments

2.6.2.7.10 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Life Sciences (Multidisciplinary) (24 credits)

Students taking this specialization have a wide variety of Life Sciences course offerings to choose from, which allow them to target their program to their own interests in the field. Course choices are balanced between "fundamentals" and "applications." Depending upon the courses chosen, the resulting program may be relatively specialized or very broad, spanning several disciplines. Such a broad background in Life Sciences will open up employment opportunities in a variety of diverse bioscience industries; students with an appropriate CGPA may proceed to a wide variety of postgraduate programs or professional schools.

Academic Adviser: Professor Brian Driscoll

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Complementary Courses (24 credits)

24 credits selected from the following list:

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 330	(3)	Fundamentals of Nutrition

ANSC 350	(3)	Food-Borne Pathogens
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
BINF 301	(3)	Introduction to Bioinformatics
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
BTEC 535	(3)	Functional Genomics in Model Organisms
BTEC 555	(3)	Structural Bioinformatics
ENTO 330	(3)	Insect Biology
ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENTO 535	(3)	Aquatic Entomology
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population & Community Ecology
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 315	(3)	Science of Inland Waters
ENVB 430	(3)	GIS for Natural Resource Management
ENVB 506	(3)	Quantitative Methods: Ecology
FDSC 442	(3)	Food Microbiology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
NUTR 337	(3)	Nutrition Through Life
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PARA 410	(3)	Environment and Infection
PARA 438	(3)	Immunology
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 434	(3)	Weed Biology and Control
PLNT 435	(3)	Plant Breeding
PLNT 460	(3)	Plant Ecology
SOIL 335	(3)	Soil Ecology and Management
WILD 424	(3)	Parasitology

2.6.2.7.11 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Microbiology and Molecular Biotechnology (24 credits)

Students following this specialization receive education and training in fundamental principles and applied aspects of microbiology. Complementary courses allow students to focus on basic microbial sciences or applied areas such as biotechnology. Successful graduates may work in university, government and industrial research laboratories, in the pharmaceutical, fermentation and food industries, and with an appropriate CGPA proceed to post-graduate studies or professional biomedical schools.

Specialization Coordinator: Professor Brian Driscoll

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (18 credits)

BTEC 306	(3)	Experiments in Biotechnology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
PARA 438	(3)	Immunology

Complementary Courses and Suggested Electives (6 credits)

ANSC 350	(3)	Food-Borne Pathogens
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
BINF 301	(3)	Introduction to Bioinformatics
BTEC 501	(3)	Bioinformatics
BTEC 535	(3)	Functional Genomics in Model Organisms
BTEC 555	(3)	Structural Bioinformatics
FDSC 442	(3)	Food Microbiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 304	(3)	Biology of Fungi
WILD 424	(3)	Parasitology

2.6.2.7.12 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Plant Biology (24 credits)

This specialization emphasizes the study of plants from the cellular to the organismal level. The structure, physiology, development, evolution, and ecology of plants will be studied. Most courses offer laboratory classes that expand on the lecture material and introduce students to the latest techniques in plant biology. Many laboratory exercises use the excellent research and field facilities at the Morgan Arboretum, McGill Herbarium, Emile A. Lods Agronomy Research Centre, the Horticultural Centre and the Plant Science greenhouses as well as McGill field stations. Students may undertake a research project under the guidance of a member of the Plant Science Department as part of their studies. Graduates with the specialization may continue in post-graduate study or work in the fields of botany, mycology, molecular biology, ecology, conservation, or environmental science.

Specialization Coordinator: Professor Marcia Waterway

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (9 credits)

PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity

PLNT 426	(3)	Plant Ecophysiology

Complementary Courses (15 credits)

15 credits of complementary courses selected from:

ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 400	(3)	Eukaryotic Cells and Viruses
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
ENVB 313	(3)	Phylogeny and Biogeography
PLNT 203	(3)	Economic Botany
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 435	(3)	Plant Breeding
PLNT 460	(3)	Plant Ecology

2.6.2.7.13 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Plant Production (24 credits)

The goal of this specialization is to give students an excellent background in the knowledge and skills relating to the biology and physiology, breeding, propagation, and management of domesticated plants. The plant industry, in both rural and urban settings, is a sector of growing importance to Canadian and global economies. Graduates may find employment directly with plants in horticulture or in field crop development, production, and management; or in government services, extension, teaching, consulting, or postgraduate studies. When taken in conjunction with the Major Agro-Environmental Sciences and the specialization in Professional Agrology, this specialization conforms with the eligibility requirements for the Ordre des agronomes du Québec.

Specialization Coordinator: Professor Jaswinder Singh

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (18 credits)

PLNT 300	(3)	Cropping Systems
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 353	(3)	Plant Structure and Function
PLNT 434	(3)	Weed Biology and Control
PLNT 435	(3)	Plant Breeding

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

AGRI 340	(3)	Principles of Ecological Agriculture
PLNT 203	(3)	Economic Botany
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 322	(3)	Greenhouse Management
PLNT 331	(3)	Grains and Biofuel Crops
PLNT 489	(1)	Project Planning and Proposal

PLNT 490	(2)	Research Project
SOIL 445	(3)	Agroenvironmental Fertilizer Use

2.6.2.7.14 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Professional Agrology (21 credits)

This specialization is required for students who wish to qualify for membership in the Ordre des agronomes du Québec (OAQ). It cannot be taken alone; it must be taken with the Major Agro-Environmental Sciences and a second specialization in Animal Production, Ecological Agriculture, Plant Production, or Soil and Water, or with the Major Agricultural Economics and the Agri-business specialization.

Note: Most students will require 21 credits to complete this specialization. In consultation with the Academic Adviser, students taking the Agri-business Specialization will need to take an additional 3 credits, chosen in consultation with the Academic Adviser, such that they meet the minimum requirements of the OAQ. The credits within this specialization may not count towards the student's major or other specialization. All of the 21 or 24 credits count only for this specialization.

Specialization Coordinator: Professor Joann Whalen

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (12 credits)

AGRI 330	(1)	Agricultural Legislation
AGRI 410D1	(3)	Agrology Internship
AGRI 410D2	(3)	Agrology Internship
AGRI 430	(2)	Professional Practice in Agrology
AGRI 490	(3)	Agri-Food Industry Project

Complementary Courses

9-12 credits

Note: students in Animal Production, Ecological Agriculture, Plant Production, or Soil and Water Resources specializations must take 9 complementary credits, while students in the Agri-business specialization must take 12 complementary credits.

For students in the Agro-Environmental Sciences major with a specialization in Animal Production, Ecological Agriculture, Plant Production, or Soil and Water Resources:

3 credits from:

AGEC 332	(3)	Farm Management and Finance
ANSC 433	(3)	Animal Nutrition
SOIL 445	(3)	Agroenvironmental Fertilizer Use

Plus 6-9 additional credits, approved by the Academic Adviser, in agricultural sciences or applied agriculture to meet the requirements of the OAQ.

For students in the Agri-business Specialization:

6 credits from:

AEBI 212	(3)	Evolution and Phylogeny
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

3 credits from:

ANSC 451	(3)	Dairy and Beef Production Management

ANSC 458	(3)	Swine and Poultry Production

3 credits from:

PLNT 300	(3)	Cropping Systems
PLNT 302	(3)	Forage Crops and Pastures
PLNT 434	(3)	Weed Biology and Control

2.6.2.7.15 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Soil and Water Resources (24 credits)

This specialization will interest students who want to understand how soils and water interact within managed ecosystems such as urban or agricultural landscapes. The conservation and management of agricultural soils, issues affecting watershed management and decision making, and the remediation of contaminated soils will be examined. When taken with the Agro-Environmental Sciences Major and the specialization in Professional Agrology, this specialization conforms with the eligibility requirements for the Ordre des agronomes du Québec.

Specialization Coordinator: Professor Joann Whalen

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (15 credits)

* Note: SOIL 335 and SOIL 445 are offered in alternate years.

BREE 217	(3)	Hydrology and Water Resources
SOIL 315	(3)	Soil Fertility and Fertilizer Use
SOIL 326	(3)	Soils in a Changing Environment
SOIL 335*	(3)	Soil Ecology and Management
SOIL 445*	(3)	Agroenvironmental Fertilizer Use

Complementary Courses (9 credits)

9 credits of complementary courses selected as follows:

3 credits from:

AGRI 435	(3)	Soil and Water Quality Management
BREE 416	(3)	Engineering for Land Development

6 credits from:

BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
ENVB 301	(3)	Meteorology
ENVB 430	(3)	GIS for Natural Resource Management
NRSC 333	(3)	Pollution and Bioremediation
SOIL 510	(3)	Environmental Soil Chemistry

2.6.2.7.16 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Wildlife Biology (24 credits)

This specialization focuses on the ecology of vertebrate animals, their biological and physical environment, and the interactions that are important in the management of ecological communities and wildlife species. Students have access to local wildlife resources including the Avian Science and Conservation Centre, the McGill Arboretum, the Stonycroft Wildlife Area, the Molson Reserve, and the Ecomuseum.

Specialization Coordinator: Professor Murray Humphries

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

Required Courses (13 credits)

PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 401	(4)	Fisheries and Wildlife Management
WILD 421	(3)	Wildlife Conservation

Complementary Courses (11 credits)

11 credits of complementary courses selected as follows:

At least 6 credits from the following:

BIOL 427	(3)	Herpetology
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

At least 5 credits from the following:

ENVB 315	(3)	Science of Inland Waters
NRSC 514	(3)	Freshwater Ecosystems
WILD 311	(3)	Ethology
WILD 415	(2)	Conservation Law
WILD 424	(3)	Parasitology
WILD 475	(3)	Desert Ecology

2.6.3 Bachelor of Engineering (Bioresource) – B.Eng.(Bioresource)

2.6.3.1 Bioresource Engineering Major

The Department of Bioresource Engineering collaborates with other departments and the Faculty of Engineering in providing courses of instruction for a curriculum in Bioresource Engineering. Graduates qualify to apply for registration as professional engineers in any province of Canada. The professional agrology option qualifies graduates to apply for registration to the *Ordre des agronomes du Québec*.

There are five streams offered within the Bioresource Engineering Major. Via the appropriate choice of elective course sets, a particular area of study may be emphasized. More information about these streams and the suggested course sets for each can be found on the Department website at www.mcgill.ca/bioeng.

In the **Bio-Environmental Engineering** stream, students learn about soil and water quality management and conservation, geomatics, hydrology and water resources, organic waste treatment, use of GIS for biosystem operation, engineering for land development, climate control in buildings, ecosystem remediation, and many other related topics.

Students who follow the **Soil and Water** stream learn about hydrology, irrigation and drainage, soil and water management, environmental quality control and remediation, structural design, machinery design, artificial intelligence, GIS, and remote sensing.

In the **Ecological Engineering** stream, students learn how to apply principals of engineering and ecology to the design and implementation of complex ecological systems. They learn how to create systems that preserve and enhance natural ecological processes as a means of fulfilling design requirements.

In the **Food and Bioprocessing** stream, students are taught about the engineering of foods and food processes, physical properties of biological materials, post-harvest technology, fermentation and bio-processing, the management of organic wastes, biotechnology, the design of machinery for bioprocessing, etc.

Students who specialize in the **Agricultural Engineering** stream will learn about machine design, machinery, robotics, structural design, environmental quality control, waste management, artificial intelligence, GIS, remote sensing, complex system simulation, and much more.

The **Professional Agrology** option offers a course selection guided to qualify graduates for registration as professional agrologists with the *Ordre des agronomes du Québec*.

All required and complementary courses must be passed with a minimum grade of C. One term is spent taking courses from the Faculty of Engineering on the McGill downtown campus.

Students also have the opportunity to pursue a minor. Several possibilities are: Agricultural Production, Environment, Ecological Agriculture, Biotechnology, Computer Science, Construction Engineering and Management, Entrepreneurship, and Environmental Engineering. Details of some of these minors can be found under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Undergraduate > [section 6.12.10: Minor Programs](#)*. To complete a minor, it is necessary to spend at least one extra term beyond the normal requirements of the B.Eng.(Bioresource) program.

See [section 2.4.5.1: Minimum Credit Requirement](#) for prerequisites and minimum credit requirements.

2.6.3.2 About the B.Eng. (Bioresource) Program

Bioresource engineering is the unique branch of engineering that includes biological engineering and bioengineering where professional engineering practice intersects with biological sciences. Bioresource engineers design, improve, and manage biology-based systems to operate in efficient and sustainable ways for the well-being of the environment and society.

2.6.3.3 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Major Bioresource Engineering (113 credits)

Academic Adviser-U1: Professor Grant Clark

Macdonald-Stewart Building, Room 1-099

Telephone: 514-398-7784

Required Courses (53 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis & Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers
BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 312	(3)	Electric Circuits and Machines
BREE 319	(3)	Engineering Mathematics
BREE 327	(3)	Bio-Environmental Engineering
BREE 341	(3)	Mechanics of Materials
BREE 451	(1)	Undergraduate Seminar 1 - Oral Presentation
BREE 452	(1)	Undergraduate Seminar 2 Poster Presentation
BREE 453	(1)	Undergraduate Seminar 3 - Scientific Writing
BREE 485	(1)	Senior Undergraduate Seminar 1
BREE 490	(3)	Engineering Design 2
BREE 495	(3)	Engineering Design 3
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MECH 289	(3)	Design Graphics

Complementary Courses

60 credits of the complementary courses selected as follow:

6 credits - Set A

9 credits - Set B (Natural Sciences and Mathematics)

9 credits - Set C (Social Sciences)

36 credits - Set D (Engineering)

Set A

One of the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems
MATH 323	(3)	Probability

One of the following:

CHEE 315	(3)	Heat and Mass Transfer
MECH 346	(3)	Heat Transfer

Set B - Natural Sciences and Mathematics

9 credits with a minimum of 3 credits chosen from the list below:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
ENVB 305	(3)	Population & Community Ecology
ENVB 315	(3)	Science of Inland Waters
LSCI 202	(3)	Molecular Cell Biology
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology

Plus 6 credits chosen in consultation with the Academic Adviser.

Set C - Social Sciences

Minimum of 3 credits from the following list:

CHEE 230	(3)	Environmental Aspects of Technology
CIVE 469	(3)	Infrastructure and Society
ENVR 201	(3)	Society, Environment and Sustainability
MIME 308	(3)	Social Impact of Technology
SOCI 235	(3)	Technology and Society

Plus 6 credits of Social Sciences, Management Studies, Humanities, or Law courses at the U1 undergraduate level or higher with approval of the Academic Adviser.

Note: these 6 credits may include one 3-credit language course other than the student's normal spoken languages.

Set D - Engineering

36 credits from the following list with the option (and approval of the Academic Adviser) of taking a maximum of 6 credits from other courses offered in the Faculty of Engineering:

BREE 214	(3)	Geomatics
BREE 217	(3)	Hydrology and Water Resources
BREE 314	(3)	Agri-Food Buildings
BREE 315	(3)	Design of Machines
BREE 322	(3)	Organic Waste Management
BREE 325	(3)	Food Process Engineering

BREE 412	(3)	Machinery Systems Engineering
BREE 416	(3)	Engineering for Land Development
BREE 418	(3)	Soil Mechanics and Foundations
BREE 419	(3)	Structural Design
BREE 420	(3)	Engineering for Sustainability
BREE 423	(3)	Biological Material Properties
BREE 430	(3)	GIS for Natural Resource Management
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 502	(3)	Drainage/Irrigation Engineering
BREE 504	(3)	Instrumentation and Control
BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 512	(3)	Soil Cutting and Tillage
BREE 515	(3)	Soil Hydrologic Modelling
BREE 518	(3)	Bio-Treatment of Wastes
BREE 519	(3)	Advanced Food Engineering
BREE 520	(3)	Food, Fibre and Fuel Elements
BREE 525	(3)	Climate Control for Buildings
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
BREE 533	(3)	Water Quality Management
CHEE 474	(3)	Biochemical Engineering
CIVE 317	(3)	Structural Engineering 1
CIVE 318	(3)	Structural Engineering 2

2.6.3.4 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Major Bioresource Engineering - Professional Agrology (113 credits)

Academic Adviser-U1: Professor Grant Clark

Macdonald-Stewart Building, Room 1-099

Telephone: 514-398-7784

Required Courses (56 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
AGRI 330	(1)	Agricultural Legislation
AGRI 430	(2)	Professional Practice in Agrology
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis & Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers

BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 312	(3)	Electric Circuits and Machines
BREE 319	(3)	Engineering Mathematics
BREE 327	(3)	Bio-Environmental Engineering
BREE 341	(3)	Mechanics of Materials
BREE 451	(1)	Undergraduate Seminar 1 - Oral Presentation
BREE 452	(1)	Undergraduate Seminar 2 Poster Presentation
BREE 453	(1)	Undergraduate Seminar 3 - Scientific Writing
BREE 485	(1)	Senior Undergraduate Seminar 1
BREE 490	(3)	Engineering Design 2
BREE 495	(3)	Engineering Design 3
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MECH 289	(3)	Design Graphics

Complementary Courses

57 credits of the complementary courses selected as follows:

6 credits - Set A

12 credits - Set B (Natural Sciences)

6 credits - Set C (Social Sciences)

33 credits - Set D (Engineering)

Set A

6 credits

One course from the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems
MATH 323	(3)	Probability

One course selected from:

CHEE 315	(3)	Heat and Mass Transfer
MECH 346	(3)	Heat Transfer

Set B - Natural Sciences

6 credits from each of the following two groups:

Group 1 - Biology

AEBI 211	(3)	Organisms 2
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

Group 2 - Agricultural Sciences

AEBI 210	(3)	Organisms 1
ANSC 250	(3)	Principles of Animal Science
ANSC 433	(3)	Animal Nutrition
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production
PLNT 203	(3)	Economic Botany
PLNT 300	(3)	Cropping Systems
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 322	(3)	Greenhouse Management
PLNT 331	(3)	Grains and Biofuel Crops

Set C - Social Sciences

3 credits from the following list:

CHEE 230	(3)	Environmental Aspects of Technology
CIVE 469	(3)	Infrastructure and Society
ENVR 201	(3)	Society, Environment and Sustainability
MIME 308	(3)	Social Impact of Technology
SOCI 235	(3)	Technology and Society

Plus one 3-credit Social Sciences, Management Studies, Humanities, Law, or Language course with permission of the Academic Adviser.

Set D - Engineering

33 credits from Group 1, Group 2, and Group 3.

(Minimum of 6 credits from Group 1 or Group 2 below.)

Group 1 - Soil and Water

BREE 214	(3)	Geomatics
BREE 217	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 416	(3)	Engineering for Land Development
BREE 418	(3)	Soil Mechanics and Foundations
BREE 430	(3)	GIS for Natural Resource Management
BREE 502	(3)	Drainage/Irrigation Engineering
BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 512	(3)	Soil Cutting and Tillage
BREE 515	(3)	Soil Hydrologic Modelling
BREE 518	(3)	Bio-Treatment of Wastes
BREE 533	(3)	Water Quality Management

Group 2 - Food Processing

BREE 325	(3)	Food Process Engineering
BREE 519	(3)	Advanced Food Engineering
BREE 520	(3)	Food, Fibre and Fuel Elements
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
CHEE 474	(3)	Biochemical Engineering

Group 3 - Other Engineering

BREE 314	(3)	Agri-Food Buildings
BREE 315	(3)	Design of Machines
BREE 412	(3)	Machinery Systems Engineering
BREE 419	(3)	Structural Design
BREE 423	(3)	Biological Material Properties
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 504	(3)	Instrumentation and Control
BREE 525	(3)	Climate Control for Buildings
CIVE 317	(3)	Structural Engineering 1
CIVE 318	(3)	Structural Engineering 2

2.6.3.5 Bachelor of Engineering (Bioresource) – B.Eng.(Bioresource) Related Programs

2.6.3.5.1 Minor in Environmental Engineering

For more information, see [section 2.6.6.8: Minor in Environmental Engineering](#).

2.6.3.5.2 Barbados Field Study Semester

For more information, see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > [section 8.4: Barbados Field Study Semester](#)*.

2.6.3.5.3 Internship Opportunities and Co-op Experiences

For more information, see [section 2.5.1: Internship Opportunities and Co-op Experience](#).

2.6.4 Bachelor of Science (Food Science) - B.Sc.(F.Sc.)

The Food Science program has been designed to combine the basic sciences, particularly chemistry, with specialty courses that are directly related to the discipline.

Freshman Adviser

Dr. Alice Cherestes
Macdonald-Stewart Building, Room 1-023
Telephone: 514-398-7980

2.6.4.1 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Major Food Science - Food Science Option (90 credits)

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Science Option can also qualify for recognition by the Institute of Food Technologists (IFT).

The Food Science Option is completed to 90 credits with free elective courses.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

Academic Adviser-U1: Professor Salwa Karboune

Macdonald-Stewart Building, Room 1-040

Telephone: 514-398-8666

Required Courses (51 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 (Organic Chemistry) must be completed as a replacement.

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
FDSC 495D2	(1.5)	Food Science Seminar
FDSC 525	(3)	Food Quality Assurance
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

Additional Required Courses - Food Science Option (21 credits)

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
FDSC 516	(3)	Flavour Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods

Elective Courses (18 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

2.6.4.2 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Major Food Science - Food Chemistry Option (90 credits)

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Chemistry Option can also qualify for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ). Food Chemistry Option is completed to 90 credits with free elective courses.

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

Academic Adviser-U1: Professor Salwa Karboune

Macdonald-Stewart Building, Room 1-040

Telephone: 514-398-8666

Required Courses (54 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 (Organic Chemistry) must be completed as a replacement.

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
FDSC 495D2	(1.5)	Food Science Seminar
FDSC 525	(3)	Food Quality Assurance
FDSC 540	(3)	Sensory Evaluation of Foods
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

Additional Required Courses - Food Chemistry Option (30 credits)

Note: Graduates of this program are qualified for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ).

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
FDSC 490	(3)	Research Project 1
FDSC 491	(3)	Research Project 2
FDSC 515	(3)	Enzyme Thermodynamics/Kinetics

FDSC 516	(3)	Flavour Chemistry
FDSC 520	(3)	Biophysical Chemistry of Food

Electives (6 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

2.6.4.3 Concurrent Bachelor of Science in Food Science (B.Sc.(F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc.(Nutr.Sc.)) - Food Science/Nutritional Science Major (Concurrent) (122 credits)

The concurrent program B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) is designed to give motivated students the opportunity to combine the two fields. The two disciplines complement each other with Food Science providing the scientific foundation in the fundamentals of food science and its application in the food system, while Nutritional Sciences brings the fundamental knowledge in the nutritional aspects of food and metabolism. The program aims to train students with the fundamental knowledge in both disciplines to promote the development of healthy food products for human consumption. The overall program is structured and closely integrated to satisfy the academic requirements of both degrees as well as the professional training or exposure to industry.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

Academic Adviser-U1: Professor Selim Kermasha

Macdonald-Stewart Building, Room 1-041

Telephone: 514-398-7922

Required Courses (79 credits)

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 497	(1.5)	Professional Seminar: Food
FDSC 525	(3)	Food Quality Assurance
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 307	(3)	Human Nutrition
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 497	(1.5)	Professional Seminar: Nutrition

NUTR 512 (3) Herbs, Foods and Phytochemicals

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits from the following:

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 330	(3)	Agriculture and Food Markets
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 450	(3)	Agriculture Business Management

At least 9 credits from the following:

AGEC 242	(3)	Management Theories and Practices
ENVR 203	(3)	Knowledge, Ethics and Environment
NRSC 340	(3)	Global Perspectives on Food
NUTR 301	(3)	Psychology
NUTR 322	(3)	Applied Sciences Communication
NUTR 446	(3)	Applied Human Resources

12 credits from the following:

FDSC 480	(12)	Industrial Stage/Food
NUTR 480	(12)	Industrial Stage/Nutrition

Elective Courses (13 credits)

Electives are selected in consultation with an academic adviser.

2.6.4.3.1 About the Concurrent Bachelor of Science in Food Science (B.Sc.(F.Sc.)) and Bachelor of Science in Nutritional Sciences (B.Sc.(Nutr.Sc.)) Program

Unique in North America, the new concurrent degree program in Food Science and Nutritional Science offers the best education in these complementary fields and opens the door to a multitude of career paths.

The **Food Science** component of the program focuses on the chemistry of food and the scientific principles underlying food preservation, processing, and packaging to provide consumers with quality foods. The **Nutritional Science** component deals with the science of the nutritional aspects of food and metabolism. The program has been carefully structured to ensure that students receive the training that industry demands.

2.6.4.4 Bachelor of Science (Food Science) – B.Sc.(F.Sc.) Related Programs

2.6.4.4.1 Certificate in Food Science

Detailed information on this certificate program can be found under [section 2.6.7.2: Certificate in Food Science \(30 credits\)](#) in this publication.

2.6.5 Bachelor of Science (Nutritional Sciences) – B.Sc.(Nutr.Sc.)

2.6.5.1 Dietetics Major

Academic Advising Coordinator

Sandy Phillips, M.Sc., R.D.
School of Dietetics and Human Nutrition

2.6.5.2 Nutrition Major**Academic Advising Coordinator**

Kristine G. Koski, Ph.D., R.D. (U.S.)
School of Dietetics and Human Nutrition

2.6.5.3 About the B.Sc. (Nutritional Sciences) Program**Freshman Adviser**

Professor Alice Cherestes
Macdonald-Stewart Building, Room 1-023
Telephone: 514-398-7980

2.6.5.4 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Dietetics (115 credits)

The Dietetics Major, which includes a 40-week internship (Stage) as part of its degree requirements, is a professional program that leads to membership in a provincial regulatory body and professional licensure as a dietitian/nutritionist.

Graduates are qualified for challenging professional and leadership positions related to food and health, as dietitians, nutritionists, and food administrators. The designations "Dietitian" and "Nutritionist" are reserved titles associated with reserved acts in the province of Quebec. As clinical nutritionists, dietitians may work in health-care settings, nutrition counselling centres, clinics, and private practice. As community nutritionists, dietitians are involved in nutrition education programs through school boards, sports centres, and local and international health agencies. The dietitian in the food service sector participates in all aspects of management to assure quality food products and services. Postgraduate programs are available to qualified graduates. The duration of the program is 3.5 years.

Successful graduates are qualified to apply for membership with the Ordre professionnel des diététistes du Québec (O.P.D.Q.) and/or other provincial regulatory bodies, as well as Dietitians of Canada. Forty weeks of supervised professional experience, "Stage", in clinical and community nutrition and food service systems management are included in the undergraduate program.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Sandy Phillips, M.Sc., R.D.

School of Dietetics and Human Nutrition

Laird Hall, Room 199b

Telephone: 514-398-7982

Notes:

The School firmly applies prerequisite requirements for registration in all required courses in the Dietetics Major.

All required and complementary courses must be passed with a minimum grade of C.

Advising Note for Professional Practice

* Note: Successful completion of each rotation of each level of Stage (Professional Practice) is required to pass that level of Stage. Each level is a prerequisite for the next level and must be passed with a minimum grade of C. Undergraduate registration is restricted to students in the Dietetics Major, CGPA greater than or equal to 3.0. Students in the Dietetics Major who have a CGPA below a 3.0 for two consecutive years will not be permitted to continue in the program. Visiting and Special students must contact the Academic Advising Coordinator (Dietetics) regarding course registration approval.

Students are reminded that ethical conduct on Professional Practice (Stage) rotations is required. The Faculty reserves the right to require the withdrawal of any student if at any time the Faculty feels the student has displayed unprofessional conduct or demonstrates incompetence.

Required Courses (100 credits)

Required courses and Professional Practice (Stage) courses are sequenced in a specific order over nine terms (3.5-year program). See <http://www.mcgill.ca/dietetics> for detailed information regarding the undergraduate program plan.

AEMA 310	(3)	Statistical Methods 1
AGEC 242	(3)	Management Theories and Practices
AGEC 343	(3)	Accounting and Cost Control

ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 208*	(1)	Professional Practice Stage 1A
NUTR 209*	(2)	Professional Practice Stage 1B
NUTR 214	(4)	Food Fundamentals
NUTR 217	(4)	Application: Food Fundamentals
NUTR 310*	(1)	Professional Practice Stage 2A
NUTR 311*	(5)	Professional Practice Stage 2B
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 345	(3)	Food Service Systems Management
NUTR 346	(2)	Quantity Food Production
NUTR 403	(3)	Nutrition in Society
NUTR 408*	(1)	Professional Practice Stage 3A
NUTR 409*	(8)	Professional Practice Stage 3B
NUTR 436	(2)	Nutritional Assessment
NUTR 438	(2)	Interviewing and Counselling
NUTR 446	(3)	Applied Human Resources
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 510*	(14)	Professional Practice - Stage 4
NUTR 545	(5)	Clinical Nutrition 2

Complementary Courses (9 credits)

3 credits from either:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

Note: ANSC 330 or NUTR 307 must be taken in Fall of U2.

3 credits of Human Behavioural Science courses chosen from:

NUTR 301	(3)	Psychology

Or equivalent from another faculty

3 credits from the social sciences that may include, but are not limited to:

AGEC 200	(3)	Principles of Microeconomics
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
RELG 270	(3)	Religious Ethics and the Environment

Or social science course from another faculty

Elective Courses (6 credits)

Students who need to improve their proficiency in either English or French are strongly encouraged to choose their electives for that purpose. Students who wish to take language courses should check with the French Language Centre, Faculty of Arts, as placement testing may be required. Students are encouraged to develop a working knowledge of French in order to optimize their participation and learning in Stage placement sites.

Alternate elective choices may include, but are not limited to:

AEHM 300	(3)	ESL: High Intermediate 1
AEHM 301	(3)	ESL: High Intermediate 2
AEHM 330	(3)	Academic and Scientific Writing
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 512	(3)	Herbs, Foods and Phytochemicals

A Compulsory Immunization

A compulsory immunization program exists at McGill which is required for Dietetics students to practice. Students should complete their immunization before or soon after arriving at Macdonald campus; confirmation of medical/health documentation will be sent by the health nurse to the University Coordinator (Stage) and must be complete prior to commencement of Stage. Certain deadlines may apply.

2.6.5.5 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Food Function and Safety (90 credits)

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. The concentration in food function and safety covers the ranges from health effects of phytochemicals and food toxicants, food chemistry and analysis, food safety, product development and influence of constituents of food on health. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Professor Kristine Koski

School of Dietetics and Human Nutrition

Macdonald-Stewart Building, Room 2-039

Telephone: 514-398-7840

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life

NUTR 344	(4)	Clinical Nutrition 1
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

3 credits, one of the following courses:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

At least 3 credits from the following courses:

ANSC 560	(3)	Biology of Lactation
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(5)	Clinical Nutrition 2

At least 9 credits from the following courses:

AGRI 510	(3)	Professional Practice
ANSC 350	(3)	Food-Borne Pathogens
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
FDSC 442	(3)	Food Microbiology
FDSC 516	(3)	Flavour Chemistry
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 525	(3)	Food Quality Assurance
FDSC 535	(3)	Food Biotechnology
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.6 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Global Nutrition (90 credits)

This Major covers many aspects of human nutrition and food and their impact on health and society at the community, and international level. It offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan. The specialization in global nutrition emphasizes the importance of the interaction of nutrition, diet, water, environment, and infection. This degree does not lead to professional licensure as a Dietitian/Nutritionist.

Graduates are qualified for careers in national and international governmental and non-governmental food and health agencies, in world development programs, in the food sector, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in public health, epidemiology, research, medicine, and dentistry or as specialists in nutrition.

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Professor Kristine Koski

School of Dietetics and Human Nutrition

Macdonald-Stewart Building, Room 2-039

Telephone: 514-398-7840

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

3 credits, one of the following courses:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

At least 3 credits selected from:

ANSC 560	(3)	Biology of Lactation
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(5)	Clinical Nutrition 2

At least 9 credits selected from:

AGEC 330	(3)	Agriculture and Food Markets
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANSC 560	(3)	Biology of Lactation
ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ENVR 203	(3)	Knowledge, Ethics and Environment
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change
NRSC 221	(3)	Environment and Health
NRSC 340	(3)	Global Perspectives on Food
NUTR 403	(3)	Nutrition in Society
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation

Elective Courses (15 credits)

15 credits of Electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.7 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Health and Disease (90 credits)

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan. This concentration emphasizes the influence of diet and nutrition on human health and the pathophysiology of chronic disease. This degree does not lead to professional licensure as a dietitian/nutritionist. Graduates are qualified for careers in health research, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Professor Kristine Koski

School of Dietetics and Human Nutrition

Macdonald-Stewart Building, Room 2-039

Telephone: 514-398-7840

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1

LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

3 credits, one of the following courses:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

At least 3 credits from the following:

ANSC 560	(3)	Biology of Lactation
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(5)	Clinical Nutrition 2

At least 9 credits from the following courses:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANSC 312	(3)	Animal Health and Disease
ANSC 560	(3)	Biology of Lactation
MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 314	(3)	Intermediate Immunology
MIMM 414	(3)	Advanced Immunology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 436	(2)	Nutritional Assessment
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology

WILD 424 (3) Parasitology

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. A reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

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2.6.5.8 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Nutritional Biochemistry (90 credits)

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. This concentration in nutritional biochemistry links nutrigenomics, nutrigenetics, and biotechnology with human health, regulation of metabolism, and the pathophysiology of inherited and chronic disease. This degree does not lead to professional licensure as a dietitian/nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements," in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Professor Kristine Koski

School of Dietetics and Human Nutrition

Macdonald-Stewart Building, Room 2-039

Telephone: 514-398-7840

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
BTEC 306	(3)	Experiments in Biotechnology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

3 credits, one of the following courses:

ANSC 330	(3)	Fundamentals of Nutrition

NUTR 307	(3)	Human Nutrition

At least 3 credits from the following:

ANSC 560	(3)	Biology of Lactation
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(5)	Clinical Nutrition 2

At least 9 credits from the following courses:

ANAT 262	(3)	Introductory Molecular and Cell Biology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 604	(3)	Advanced Animal Biotechnology
BINF 301	(3)	Introduction to Bioinformatics
BIOC 312	(3)	Biochemistry of Macromolecules
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BTEC 535	(3)	Functional Genomics in Model Organisms
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 314	(3)	Intermediate Immunology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
PARA 438	(3)	Immunology

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. A reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.9 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Sports Nutrition (90 credits)

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. The concentration in sports nutrition integrates the influence of exercise and physical activity on health and chronic disease prevention. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this publication for prerequisites and minimum credit requirements.

Academic Advising Coordinator: Professor Kristine Koski

School of Dietetics and Human Nutrition

Macdonald-Stewart Building, Room 2-039

Telephone: 514-398-7840

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

3 credits, one of the following courses:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

At least 3 credits from the following:

ANSC 560	(3)	Biology of Lactation
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(5)	Clinical Nutrition 2

At least 9 credits from:

ANAT 214	(3)	Systemic Human Anatomy
EDKP 330	(3)	Physical Activity and Health
EDKP 395	(3)	Exercise Physiology
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism

EDKP 446	(3)	Physical Activity and Ageing
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Exercise Pathophysiology 2
EDKP 485	(3)	Exercise Pathophysiology 1
EDKP 542	(3)	Environmental Exercise Physiology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 436	(2)	Nutritional Assessment

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval, students can take electives at any Canadian or international university.

2.6.5.10 Bachelor of Science (Nutritional Sciences) – Related Programs

2.6.5.10.1 Minor in Human Nutrition

Detailed information on this Minor can be found under [section 2.6.6.9: Minor Human Nutrition \(24 credits\)](#) in this publication.

2.6.5.10.2 Concurrent Bachelor of Science in Food Science – B.Sc.(F.Sc.) and Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.) – Food Science/Nutritional Science Major

Detailed information on this concurrent program can be found under [section 2.6.4.3: Concurrent Bachelor of Science in Food Science \(B.Sc.\(F.Sc.\)\) and Bachelor of Science Nutritional Sciences \(B.Sc.\(Nutr.Sc.\)\) - Food Science/Nutritional Science Major \(Concurrent\) \(122 credits\)](#) in this publication.

2.6.6 Minor Programs

The Faculty of Agricultural and Environmental Sciences offers a number of minor programs.

For registration information, see [section 2.4.5.8.1: Procedures for Minor Programs](#).

2.6.6.1 Minor in Environment (McGill School of Environment)

For information about the Minor in Environment, consult *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > [section 7.7: Minor in Environment](#)*.

2.6.6.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agricultural Economics (24 credits)

The Minor in Agricultural Economics will complement a student's education in four ways. First, as a social science, Economics will provide an alternative perspective for students in the Faculty. Second, the Minor will provide an excellent foundation of the workings of the economy at large. Third, it will aid students in understanding the business environment surrounding the agri-food industry. Finally, it will challenge students to analyze the interaction between the agricultural economy and the natural resource base.

Minor Coordinator: Professor John Henning

Macdonald-Stewart Building, Room 3-038

Telephone: 514-398-7826

Required Courses (12 credits)

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 330	(3)	Agriculture and Food Markets
AGEC 333	(3)	Resource Economics

Complementary Courses (12 credits)

12 credits of complementary courses selected from:

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 242	(3)	Management Theories and Practices

AGEC 320	(3)	Intermediate Microeconomic Theory
AGEC 332	(3)	Farm Management and Finance
AGEC 343	(3)	Accounting and Cost Control
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 450	(3)	Agriculture Business Management
AGEC 491	(3)	Research & Methodology
AGEC 492	(3)	Special Topics in Agricultural Economics 01

2.6.6.3 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agricultural Production (24 credits)

This Minor program is designed to allow students in non-agricultural production majors to receive credit for courses in agricultural production and to stimulate "cross-over" studies. The Minor can be associated with existing major programs in the Faculty, but in some instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised to consult their major program adviser and the Academic Adviser of the Minor in their first year. At the time of registration for their penultimate year, students must declare their intent to obtain a Minor Agricultural Production. With the agreement of their major program adviser, they must submit their program of courses already taken, and to be taken in their final year, to the Academic Adviser of the Agricultural Production Minor. The Academic Adviser of the Agricultural Production Minor will then certify which courses the student will apply toward the Minor and that the student's program conforms with the requirements of the Minor.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.
2. Not all courses are offered every year. For information on available courses, consult Class Schedule at <http://www.mcgill.ca/minerva>; complete listings can be found in the "Courses" section of this publication.

Academic Adviser: Professor Jaswinder Singh

Department of Plant Science

Telephone: 514-398-7906

General Regulations

To obtain a Minor in Agricultural Production, students must:

- a) ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
- b) offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (12 credits)

AEBI 210	(3)	Organisms 1
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
PLNT 300	(3)	Cropping Systems

Complementary Courses (12 credits)

12 credits chosen from the following list in consultation with the Academic Adviser for the Minor:

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production
PLNT 302	(3)	Forage Crops and Pastures

PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 331	(3)	Grains and Biofuel Crops

2.6.6.4 Minor Animal Biology (24 credits)

The Minor Animal Biology is intended for students who wish to further their studies in the basic biology of large mammals and birds. Successful completion of the program should provide students with a sound background in the field of biomedical studies and the use of animal models. It should also qualify students to apply to most veterinary colleges in North America, to study in a variety of postgraduate biology programs, and to work in many laboratory settings.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Biology.

Academic Adviser: Professor Roger Cue

Department of Animal Science

Telephone: 514-398-7805

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 420	(3)	Animal Biotechnology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

A minimum of 9 credits selected from the following list:

ANSC 251	(3)	Comparative Anatomy
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 330	(3)	Fundamentals of Nutrition
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
LSCI 451	(3)	Research Project 1

2.6.6.5 Minor Animal Health and Disease (24 credits)

The Minor in Animal Health and Disease is offered to students wishing to understand general animal physiology and function, the susceptibility of animals to various diseases, methods for limiting and controlling potential outbreaks, and the resulting implications for the animal, the consumer, and the environment. It is an ideal choice for students who are interested in the care of animals, or in working in laboratories where diseases are being researched. It would also be useful to students who wish to apply to most veterinary colleges in North America.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Health and Disease.

Academic Adviser: Professor Sarah Kimmins

Macdonald-Stewart Building, Room 1-091

Telephone: 514-398-7658

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology

MICR 341	(3)	Mechanisms of Pathogenicity
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits selected from the following list:

ANSC 251	(3)	Comparative Anatomy
ANSC 330	(3)	Fundamentals of Nutrition
ANSC 350	(3)	Food-Borne Pathogens
LSCI 451	(3)	Research Project 1
PARA 410	(3)	Environment and Infection
WILD 311	(3)	Ethology
WILD 424	(3)	Parasitology

2.6.6.6 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Applied Ecology (24 credits)

Food, water, air, the materials we use, and much of the diversity of life and recreation we enjoy are products of ecological systems. We manage ecosystems to provide these services and our use and misuse often degrades the ability ecosystems to provide the benefits and services we value. In the Applied Ecology minor you will develop your ability to understand how ecosystems function. You will apply systems thinking to the challenge of managing ecosystems for agriculture, forestry, fisheries, protected areas and urban development. Concepts and tools will be presented that help you to deal with the complexity that an ecosystem perspective brings. The goal of this minor is to provide students with an opportunity to further develop their understanding of the ecosystem processes, ecology, and systems thinking necessary to understand, design and manage our interaction with the environment.

Minor Coordinator: Professor Elena Bennett

Academic Adviser: Dr. Julie Major

Macdonald-Stewart Building, Room 2-082

Telephone: 514-398-8380

To obtain a Minor in Applied Ecology, students must:

- Ensure all required and complementary courses are passed with a minimum grade of C;
- Select 24 credits from the courses as given below, of which not more than 6 credits may be counted toward the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (9 credits)

ENVB 305	(3)	Population & Community Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact

Complementary Courses (15 credits)

15 credits of complementary courses selected as follows:

A minimum of 6 credits are selected from the Abiotic list below:

AGRI 435	(3)	Soil and Water Quality Management
BREE 217	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 510	(3)	Watershed Systems Management
ENVB 301	(3)	Meteorology
ENVB 430	(3)	GIS for Natural Resource Management
ENVB 506	(3)	Quantitative Methods: Ecology

NRSC 333	(3)	Pollution and Bioremediation
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
SOIL 510	(3)	Environmental Soil Chemistry

A minimum of 6 credits are selected from the Biotic list below:

AGRI 340	(3)	Principles of Ecological Agriculture
ENTO 440	(3)	Insect Diversity
ENVB 315	(3)	Science of Inland Waters
MICR 331	(3)	Microbial Ecology
MICR 450	(3)	Environmental Microbiology
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

2.6.6.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Ecological Agriculture (24 credits)

The Minor Ecological Agriculture is designed to focus on the principles underlying the practice of ecological agriculture and is suitable for students wishing to farm and do extension and government work, and those intending to pursue postgraduate studies in this field.

This Minor can be associated with existing major programs in the Faculty, but in some instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised, during the U1 year, to consult their Major program adviser and the Academic Adviser of the Minor. At the time of registration for the U2 year, students must declare their intent to obtain the Minor. With the agreement of their Major program adviser they must submit their program of courses already taken, and to be taken, to the Academic Adviser of the Minor. The Academic Adviser of the Minor will then certify which courses the student will apply toward the Minor and confirm that the student's program conforms with its requirements.

Academic Adviser: Dr. Caroline Begg

Raymond Building, Room 2-028a

Telephone: 514-398-8749

General Regulations

To obtain a Minor in Ecological Agriculture, students must:

- Ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
- Offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (9 credits)

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
RELG 270	(3)	Religious Ethics and the Environment

Complementary Courses (15 credits)

15 credits chosen from:

* Note: Offered in alternate years.

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGRI 310	(3)	Internship in Agriculture/Environment
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ENTO 352	(3)	Biocontrol of Pest Insects
MICR 331	(3)	Microbial Ecology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PLNT 302	(3)	Forage Crops and Pastures
PLNT 312*	(3)	Urban Horticulture
PLNT 426*	(3)	Plant Ecophysiology
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
SOIL 326	(3)	Soils in a Changing Environment
SOIL 335*	(3)	Soil Ecology and Management
SOIL 342	(3)	Organic Soil Fertilization
SOIL 445*	(3)	Agroenvironmental Fertilizer Use

2.6.6.8 Minor in Environmental Engineering

The Minor program consists of 21 credits in courses that are environment related. By means of a judicious choice of complementary and elective courses, Bioresource Engineering students may obtain this Minor with a minimum of 12 additional credits.

The Environmental Engineering Minor is administered by the Faculty of Engineering, Department of Civil Engineering and Applied Mechanics (see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > [section 6.12.10.9: Environmental Engineering Minor](#)*).

Courses available in the Faculty of Agricultural and Environmental Sciences (partial listing):

BREE 322	Organic Waste Management
BREE 416	Engineering for Land Development
BREE 518	Bio-Treatment of Wastes
MICR 331	Microbial Ecology

Academic Adviser: Professor Shiv Prasher
Macdonald-Stewart Building, Room 1-028
Telephone: 514-398-7775

2.6.6.9 Minor Human Nutrition (24 credits)

The Minor Human Nutrition is intended to complement a student's primary field of study by providing a focused introduction to the metabolic aspects of human nutrition. It is particularly accessible to students in Biochemistry, Biology, Physiology, Anatomy and Cell Biology, Microbiology and Immunology, Animal Science, or Food Science programs. The completion of 24 credits is required, of which at least 18 must not overlap with the primary program. All courses must be taken in the appropriate sequence and passed with a minimum grade of C. Students may declare their intent to follow the Minor program at the beginning of their U2 year. They must then consult with the academic adviser in the School of Dietetics and Human Nutrition to obtain approval for their course selection. Since some courses may not be offered every year and many have prerequisites, students are cautioned to plan their program in advance.

The Minor program does not carry professional recognition; therefore, it is not suitable for students wishing to become nutritionists or dietitians. However, successful completion may enable students to qualify for many postgraduate nutrition programs.

Note:

Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.

Academic Adviser: Professor Linda Wykes
Macdonald-Stewart Building, Room 2-042

Telephone: 514-398-7843

Required Courses (6 credits)

NUTR 337	(3)	Nutrition Through Life
NUTR 450	(3)	Research Methods: Human Nutrition

Complementary Courses (18 credits)

18 credits are selected as follows:

3 credits in Biochemistry, one of:

ANSC 234	(3)	Biochemistry 2
BIOC 311	(3)	Metabolic Biochemistry

3 credits in Physiology, one of:

ANSC 323	(3)	Mammalian Physiology
PHGY 210	(3)	Mammalian Physiology 2

3 credits in Nutrition, one of:

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307	(3)	Human Nutrition

9 credits are selected as follows:

ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
NUTR 403	(3)	Nutrition in Society
NUTR 436	(2)	Nutritional Assessment
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data
PATH 300	(3)	Human Disease

One of:

MIMM 314	(3)	Intermediate Immunology
PARA 438	(3)	Immunology

One of:

NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 431	(3)	Directed Studies: Dietetics and Nutrition 2

2.6.6.10 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor International Agriculture (24 credits)

Students enter this minor to acquire a global and applied understanding of agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in the developing world. This program provides students with a combination of coursework at McGill together with a hands-on experience in a developing country, meeting locals and attending courses with McGill professors and/or local instructors. The costs of these field experiences may vary. The field experience (semester, short course or internship) includes developing projects in local communities, observing subsistence agriculture in situ and participating in various activities which contribute to sensitize the students to the challenges that developing countries face. Students study water resources, sustainable development, nutrition, planning and development, and a host of other fascinating topics, allowing them to sharpen their skills for future career opportunities.

Minor Adviser: Professor Humberto Monardes

Macdonald-Stewart Building, Room 1-093

Telephone: 514-398-7809

Required Courses (9 credits)

AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
NUTR 501	(3)	Nutrition in Developing Countries

Complementary Courses (15 credits)

15 credits of complementary courses selected from either Option A or Option B.

Option A

3 credits from husbandry/cropping/farming:

AGRI 215	(3)	Agro-Ecosystems Field Course
PLNT 203	(3)	Economic Botany
PLNT 300	(3)	Cropping Systems

Plus 3 credits from field experience:

AGRI 325	(3)	Sustainable Agriculture and Food Security
AGRI 499	(3)	Agricultural Development Internship

Plus 3 credits from policy and economics:

AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy

Plus 6 credits from resource/environment:

BREE 510	(3)	Watershed Systems Management
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation

Option B

15 credits from any of the McGill Field Study Semesters listed below:

Africa Field Study Semester (Winter)

15 credits in African Field Study Semester are selected as follows:

9 credits of courses chosen from the complementary course set offered in the year of participation in the Field Study Semester.

6 credits of required courses as listed below:

GEOG 416	(3)	Africa South of the Sahara
NRSC 405	(3)	Natural History of East Africa

Barbados Field Study Semester (Fall)

15 credits selected as follows:

AGRI 452	(3)	Water Resources in Barbados
AGRI 519	(6)	Sustainable Development Plans
URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Barbados Interdisciplinary Tropical Studies Field Semester (Summer)

15 credits selected as follows:

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

Panama Field Study Semester (Winter)

15 credits selected as follows:

9 credits of required courses

BIOL 553	(3)	Neotropical Environments
ENVR 451	(6)	Research in Panama

6 credits of complementary courses

Choose one of the following sets:

AGRI 550	(3)	Sustained Tropical Agriculture
HIST 510	(3)	Environmental History of Latin America (Field)

OR

GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments

2.6.7 Post-Baccalaureate Certificate Programs

The Faculty offers the following 30-credit post-baccalaureate certificate programs.

2.6.7.1 Certificate in Ecological Agriculture (30 credits)

This 30-credit certificate program is very similar to the Minor program and is designed to focus on the principles underlying the practice of ecological agriculture. The certificate may be of special interest to professional agrologists who want further training, as well as formal recognition that they have completed a coherent program of courses beyond their B.Sc. studies.

Students holding a B.Sc. in agriculture or a related area are eligible to register for this program provided that they are otherwise acceptable for admission to the University. Students who have completed the Minor or specialization in Ecological Agriculture are not permitted to register for this program.

Academic Adviser: Dr. Caroline Begg
Raymond Building, Room 2-028a
Telephone: 514-398-8749

General Regulations

To obtain a certificate in Ecological Agriculture, students must complete a minimum total of 30 credits from the courses as given below.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study to ensure that they have met all conditions.
2. Students using AGRI 310 toward the requirements of the Specialization/Minor/Certificate are limited to an experience on farms or other enterprises that are organic, biodynamic, or practising permaculture. The placement must be approved by the academic adviser for the specialization/Minor/certificate.

Required Courses (9 credits)

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
RELG 270	(3)	Religious Ethics and the Environment

Complementary Courses (21 credits)

21 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture.

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGRI 310	(3)	Internship in Agriculture/Environment
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ENTO 352	(3)	Biocontrol of Pest Insects
ENVB 305	(3)	Population & Community Ecology
ENVB 410	(3)	Ecosystem Ecology
MICR 331	(3)	Microbial Ecology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PLNT 302	(3)	Forage Crops and Pastures
PLNT 426*	(3)	Plant Ecophysiology
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
SOIL 326	(3)	Soils in a Changing Environment
SOIL 335*	(3)	Soil Ecology and Management
SOIL 342	(3)	Organic Soil Fertilization
SOIL 445*	(3)	Agroenvironmental Fertilizer Use
WILD 311	(3)	Ethology

2.6.7.2 Certificate in Food Science (30 credits)

This 30-credit program will appeal to mature students who have a first degree in a science-related discipline. Students must complete the Introduction to Food Science, Food Microbiology, and Quality Assurance courses, at least three Food Chemistry/Analysis courses, two Processing/Engineering courses, and at least one course in communication skills, ethics, or business skills. Entry to this program is permitted only in September.

Academic Adviser: Professor Hosahalli S. Ramaswamy
Macdonald-Stewart Building, Room 1-038
Telephone: 514-398-7919

Required Course (3 credits)

FDSC 200	(3)	Introduction to Food Science

Complementary Courses (27 credits)

27 credits are selected as follows:

9 credits from the following:

FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 319	(3)	Food Commodities
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 495D1	(1.5)	Food Science Seminar
FDSC 495D2	(1.5)	Food Science Seminar
FDSC 516	(3)	Flavour Chemistry

6 credits from the following:

BREE 324	(3)	Elements of Food Engineering
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 405	(3)	Food Product Development
FDSC 525	(3)	Food Quality Assurance

3 credits from the following:

FDSC 442	(3)	Food Microbiology
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

9 credits from the following:

AGRI 510	(3)	Professional Practice
FDSC 515	(3)	Enzyme Thermodynamics/Kinetics
FDSC 519	(3)	Advanced Food Processing
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 535	(3)	Food Biotechnology
FDSC 536	(3)	Food Traceability
FDSC 537	(3)	Nutraceutical Chemistry

2.6.8 Field Studies

2.6.8.1 Africa Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.3: Africa Field Study Semester](#).

2.6.8.2 Barbados Field Study Semester

This program takes place at Bellairs Research Institute in Barbados; it is a full 15-credit program offered each Fall semester. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.4: Barbados Field Study Semester](#).

2.6.8.3 Barbados Interdisciplinary Tropical Studies Field Semester

This 15-credit program is offered at the Bellairs Research Institute in Barbados. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.5: Barbados Interdisciplinary Tropical Studies Field Semester](#).

2.6.8.4 Panama Field Study Semester

This program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.6: Panama Field Study Semester](#).

McGill students are eligible for a Mobility Award; see www.mcgill.ca/studentaid/mobilityawards for details or contact the Scholarships and Student Aid Office (SSAO) at mobilityaward@mcgill.ca.

2.7 Graduate Programs

Graduate work may be undertaken on the Macdonald Campus, through the Departments of Animal Science, Bioresource Engineering, Food Science and Agricultural Chemistry, Natural Resource Sciences, Plant Science, the Institute of Parasitology, and the School of Dietetics and Human Nutrition.

The advanced courses of study offered lead to the degrees of Master of Science, Master of Science Applied, Doctor of Philosophy, Graduate Certificate in Biotechnology, and Graduate Certificate in Integrated Water Resources Management (IWRM).

Information on these programs and related fellowships is available from the Student Affairs Office, Macdonald Campus of McGill University, 21,111 Lakeshore Road, Laird Hall, Sainte-Anne-de-Bellevue, Quebec, H9X 3V9.

The *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies is available at www.mcgill.ca/study, and full information regarding graduate courses, theses, registration, fellowships, etc., can be accessed at www.mcgill.ca/gps.

2.8 Farm Management and Technology Program

2.8.1 Location

Farm Management and Technology Program
Faculty of Agricultural and Environmental Sciences
Macdonald Campus of McGill University
21,111 Lakeshore Road, Harrison House
Sainte-Anne-de-Bellevue, Quebec H9X 3V9

Telephone: 514-398-7814

Fax: 514-398-7955

Email: fmt.macdonald@mcgill.ca

Website: www.mcgill.ca/fmt

2.8.2 Farm Management and Technology Program Faculty

Director

Peter Enright

Associate Director

Serge Lussier

Faculty Lecturers

Caroline Begg

Christian Molgat

Pascal Thériault

David Wees

2.8.3 Diploma Farm Management Technology

This three-year academic and practical program is offered on the Macdonald campus and taught by the staff of the Faculty of Agricultural and Environmental Sciences of McGill University. The program is funded by the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec and authorized by the Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST).

The educational goals of the program are:

1. to make our graduates competent in the exercise of their profession;
2. to help the student's integration into professional life;
3. to foster professional mobility;
4. to foster a need for continual development of professional knowledge.

Program Overview

Six academic terms are spent on the Macdonald Campus studying a sequence of courses in soil, plant science, animal science, engineering, economics, and management. The first summer of the program includes a 13-week internship on an agricultural enterprise other than the home farm, or an agricultural business where the student learns the many skills and encounters the many problems related to modern commercial agriculture. Students prepare for their Enterprise internship during both academic semesters of Year 1 through two Farm Practice courses.

During the second summer, students are registered in Entrepreneurship 1, which involves agricultural enterprises. The students will be responsible for data collection to be used in their Farm Project and the Nutrient Management Plan 2 when they return to campus for the Fall semester. The internships and practicums will enable the students to relate their academic work to the reality of farming and the agri-food sector.

Finally, courses in English, Français, Humanities, Physical Education, and two complementary courses taken during the program will entitle the student to receive a Diplôme d'études collégiales (DEC) from the MESRST. Students will also receive a certification from Macdonald campus stating that they have successfully completed the requirements of the Farm Management and Technology program.

Program Outline**Administrative Unit**

FMTP 001	(1.33)	Farm Practice 1 (152-001-MC)
FMTP 007	(2)	Health and Farm Safety (152-007-MC)
FMTP 011	(1.33)	Farm Practice 2 (152-011-MC)
FMTP 036	(6)	Enterprise Internship (152-036-MC)
FMTP 037	(2.33)	Entrepreneurship 1 (152-037-MC)

Bioresource Engineering

FMTP 003	(2)	Soil Preparation (152-003-MC)
FMTP 004	(1.67)	Microcomputing (152-004-MC)
FMTP 014	(1.67)	Machinery Management (152-014-MC)
FMTP 018	(1.33)	Building Maintenance (152-018-MC)
FMTP 019	(1.67)	Tools & Machinery Maintenance (152-019-MC)
FMTP 021	(2)	Water and Soil Conservation (152-021-MC)
FMTP 024	(1.67)	Farm Building Planning (152-024-MC)

FMTP 027	(1.33)	Precision Farming (152-027-MC)

Agricultural Economics

FMTP 002	(1.33)	Introduction to Economics (152-002-MC)
FMTP 025	(2)	Farm Project (152-025-MC)
FMTP 038	(2)	Financial and Managerial Accounting (152-038-MC)
FMTP 039	(1.67)	Agri-Marketing (152-039-MC)
FMTP 042	(2.33)	Budgeting, Finance and Policies (152-042-MC)
FMTP 043	(2.67)	Entrepreneurship 2 (152-043-MC)
FMTP 044	(1.33)	Management of Human Resources (152-044-MC)

Animal Science

FMTP 005	(1.33)	Animal Anatomy and Physiology
FMTP 008	(2.33)	Introduction to Animal Science (152-008-MC)

English

FMTP 077	(2.67)	Introduction to College English
FMTP 080	(2)	English Upgrading
FMTP 082	(2.33)	Literary Genres (603-102-04)
FMTP 083	(2.33)	Literary Themes (603-103-04)
FMTP 084	(2)	English for FMT (603-VSA-04)

Français

FMTP 075	(2)	Langue française et communication (602-101-03)
FMTP 098	(2)	Français agricole (602-VSG-MC)

Humanities

FMTP 085	(2.33)	Humanities 1: Knowledge (345-103-04)
FMTP 086	(2)	Humanities 2: World Views (345-102-03)
FMTP 087	(2)	Humanities 3: Env.& Org. Issues (345-VSH-MC)

Natural Resource Sciences

FMTP 009	(2.67)	Soil Fertilization (152-009-MC)
FMTP 040	(1.67)	Nutrient Management Plan 1 (152-040-MC)
FMTP 041	(1.33)	Nutrient Management Plan 2 (152-041-MC)

Physical Education

FMTP 090	(1)	Physical Activity and Health (109-101-MQ)
FMTP 091	(1)	Physical Activity and Effectiveness (109-102-MQ)
FMTP 095	(1)	Active Living (109-105-02)

Plant Science

FMTTP 006	(2.67)	Agricultural Botany
FMTTP 017	(1.33)	Pesticide Use

Elective Production Courses

We offer four production courses in the area of Animal Science and four production courses in the area of Plant Science. Students must take a minimum of two courses in each category for a total of four courses. Students could elect to take more than four courses if they wish, after a discussion with their academic adviser. They must take a minimum of two courses per semester.

Animal Science Category

FMTTP 028	(2.67)	Dairy Heifer Management (152-028-MC)
FMTTP 029	(2.67)	Dairy Herd Management (152-029-MC)
FMTTP 030	(2.67)	Swine and Poultry (152-030-MC)
FMTTP 031	(2.67)	Beef and Sheep (152-031-MC)

Plant Science Category

FMTTP 032	(2.67)	Fruit and Vegetable Crops (152-032-MC)
FMTTP 033	(2.67)	Greenhouse Crops (152-033-MC)
FMTTP 045	(2.67)	Field Crop Production (152-045-MC)
FMTTP 046	(2.67)	Field Crop Management (152-046-MC)

Complementary Courses*

Students must take the following complementary courses to meet the program requirements:

* After consultation with their academic adviser, students can substitute complementary courses taken at another collegial institution. This includes science courses which are required for further studies in a degree program. The cost associated with courses taken elsewhere must be assumed by the students.

FMTTP 096	(2)	Forests, Forestry and Society (305-032-MC)
FMTTP 097	(2)	Landscape Design (504-VSG-MC)

Comprehensive Assessment

The objective of this examination is to ensure that students have attained the objectives and standards for each competency in the program. Successful completion of the Comprehensive Assessment is mandatory to obtain the D.E.C.

The passing grade is 60%. The mark indicating that the student has successfully completed the Comprehensive Assessment will appear on the student's transcript.

English Exit Examination

All students who wish to graduate and obtain the DEC must pass the English Exit Examination that is offered by the MESRST. Students must take this examination on the date selected by the MESRST.

2.8.4 Entrance Requirements – FMT

1. Students should have a good practical knowledge of farming under eastern Canadian conditions. One year of experience is recommended, but under special conditions a four-month summer season is acceptable.
2. The minimum academic entrance requirements are a Quebec High School Leaving Certificate (Secondary V), or its equivalent and any other academic requirement set by the Government of Quebec.
3. All candidates for admission must make arrangements to come to the Macdonald campus for an interview prior to admission to the program.
4. Admission to this program is only in the Fall semester.
5. We strongly encourage incoming students to acquire their driver's permit (both for cars **and** farm equipment) before coming to Macdonald campus. This is first for safety reasons, given that students work with farm equipment (Soil Preparation) very early on as they arrive at Macdonald. As well, most farmers require their employees and trainees (stagiaires) to drive and possess the appropriate driver's license.

2.8.5 Registration – FMT

Students in the Farm Management and Technology program must register online using Minerva at www.mcgill.ca/minerva for each semester at McGill.



Note: The University reserves the right to make changes without prior notice to the information contained in this publication, including the alteration of various fees, schedules, conditions of admission and credit requirements, and the revision or cancellation of particular courses. In normal circumstances, individual courses will not be offered with fewer than five registrants.

2.8.6 Academic Rules and Regulations – FMT

The Farm Management and Technology program follows the rules and regulations of McGill University as well as from the *Ministère de l'Éducation, du Loisir et du Sport du Québec* for the collegial level.

2.8.6.1 Sessional Dates – FMT

The number of teaching and examination days is set by the *Ministère de l'Éducation, du Loisir et du Sport du Québec*. The sessional dates vary from year to year. At the present time, each semester has 75 teaching days and seven days of exams.

2.8.6.2 Last Day for Withdrawal or Course Additions – FMT

The last day to make course registration changes for Fall term courses is September 20.

The last day to make course registration changes for Winter term courses is February 15.

2.8.6.3 Academic Standing – FMT

Attendance in class is compulsory. Students with attendance of less than 80% may not be permitted to write examinations.

Examinations and other work in courses will be marked according to the percentage system. The minimum passing mark in a course is 60%.

When a student's cumulative percent average (CPA) or semestrial percent average (SPA) first drops below 60%, or they fail four or more courses in a semester, withdrawal is advised. Students who choose to remain in the program are on probation.

Students on probation are normally permitted to register for no more than 10 credits per semester. They are not permitted to be on probation for more than one semester unless they obtain an SPA of 70% or higher.

Students who do not raise their CPA to 60% (or obtain an SPA of 70%) while on probation are not permitted to continue. They are required to withdraw from the program for one year. If, after this period, students wish to be readmitted, they must apply in writing to the Director of the program.

2.8.6.4 Handbook on Student Rights and Responsibilities

This *Handbook* is a compendium of regulations and policies governing student rights and responsibilities at McGill University. It is published jointly by the Dean of Students' Office and the Secretariat. A copy of the *Handbook* can be found at www.mcgill.ca/secretariat/policies/students or obtained from the Student Affairs Office or the Student Services Centre on the Macdonald campus.

2.8.6.5 Institutional Policy on the Evaluation of Student Achievement – FMT

The policy has the following objectives:

- to establish and explain the principles followed in evaluating student learning;
- to describe the means of translating these principles into practice and to establish the required procedures;
- to articulate the appropriate responsibilities of students, instructors, departments, and academic administrators;
- to account to students, parents, universities, and employers for the standards of learning at the campus;
- to create an environment of awareness and free discussion of pedagogical concerns within all segments of the campus community;
- to provide information that will allow students to more fully understand and participate in the educational process;
- to provide the framework within which instructors and academic administrators can exercise their professional judgment in a competent, just, and coherent fashion.

Copies are available in the Library and students are informed of it at registration.

2.8.7 Fees and Expenses – FMT

2.8.7.1 Fees

Tuition fees for all full-time students who are eligible for the Farm Management and Technology program are paid by the *Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec*. Student Services and Student Societies' fees, as well as course material fees, will be charged according to the

schedule in effect for all Macdonald campus students. At the time of publishing, the fees* were \$871.10 for the Fall semester, and \$680.34 for the Winter semester.

* 2012–2013 fees, subject to change without notice.

2.8.7.2 Textbooks and Supplies

The cost of textbooks and supplies is estimated at \$200.00 per semester.

2.8.7.3 Financial Assistance

In-Course Financial Aid (including loans and bursaries) is available to full-time students on the basis of demonstrated financial need; however, it is recommended that all applicants apply for the maximum government student assistance program for which they are eligible. Students may apply for In-Course Financial Aid through the *Financial Aid & Awards Menu* on Minerva and will then be asked to make an appointment with the Loan Administrator who visits the Student Services Centre, Macdonald campus, every Wednesday to meet with students with financial difficulties. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.8: Scholarships and Student Aid* or contact the Student Services Centre at 514-398-7992.

2.8.8 Residence Accommodation – FMT

Laird Hall is a co-educational residence with a capacity of 250 students. It accommodates students in double and single rooms. Each floor includes shared washrooms, a fully-equipped kitchen, a television lounge, and a laundry room. For more information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Residential Facilities > section 1.15.2: University Residences – Macdonald Campus*; www.mcgill.ca/students/housing/macdonald or email residences.macdonald@mcgill.ca.

2.9 Department of Animal Science

2.9.1 Location

Macdonald Stewart Building, Room MS1-084

Telephone: 514-398-7794

Fax: 514-398-7964

Email: animal.science@mcgill.ca

Website: www.mcgill.ca/animal

2.9.2 About the Department of Animal Science

There are excellent programs available for those students interested in the study of animal science at the undergraduate level. Whether students are interested in the improvement of livestock production from the point of view of nutrition, breeding and reproduction, or the study of animals in a health context, or even the biotechnology aspects that provide a basis for further laboratory research and an opening to animal models and their impact on human health and disease, there is a specialization that will appeal to those needs.

The Department of Animal Science plays a crucial role in the offering of four important specializations:

- Animal Biology
- Animal Health and Disease
- Animal Production
- International Agriculture

Each of these specializations must be taken within the context of a major, depending on the orientation of a student towards animal production management, animal biotechnology, further studies in animal health, international studies, and/or graduate studies.

A student with an interest in animals, who wishes to become a professional agrologist (a member of the *Ordre des agronomes du Québec*), should register in the Agro-Environmental Sciences Major and take the specialization in Animal Production (as well as the obligatory specialization in Professional Agrology).

2.9.3 Department of Animal Science Faculty

Chair

Kevin M. Wade

Emeritus Professors

Roger B. Buckland; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Md.)

Emeritus Professors

Eduardo R. Chavez; Ing.Agr.(Chile), M.Sc., Ph.D.(Davis)
 Eugene Donefer; B.Sc., M.Sc.(C'nell), Ph.D.(McG.)
 Bruce R. Downey; D.V.M.(Tor.), Ph.D.(McG.)
 Urs Kühnlein; B.Sc.(Fed. Inst. of Tech., Zurich), Ph.D.(Geneva)
 John E. Moxley; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(C'nell)
 Sherman Touchburn; M.S.A.(Br. Col.), Ph.D.(Ohio St.)

Professors

J. Flannan Hayes; B.Agr.Sc., M.Agr.Sc.(Dublin), Ph.D.(N. Carolina St.)
 Xin Zhao; B.Sc., M.Sc.(Nanjing), Ph.D.(C'nell) (*James McGill Professor*)

Associate Professors

Vilceu Bordignon; D.V.M.(URCAMP, Brazil), M.Sc.(UFPeL, Brazil), Ph.D.(Montr.)
 Roger I. Cue; B.Sc.(Newcastle, UK), Ph.D.(Edin.)
 Sarah Kimmins; B.Sc.(Dal.), M.Sc.(Nova Scotia Ag.), Ph.D.(Dal.)
 Humberto G. Monardes; Ing.Agr.(Concepcion, Chile), M.Sc., Ph.D.(McG.)
 Arif Mustafa; B.Sc., M.Sc.(Khartoum), Ph.D.(Sask.) (*William Dawson Scholar*)
 Leroy E. Phillip; B.Sc.(Agr.), M.Sc.(Agr.)(McG.), Ph.D.(Guelph)
 Kevin Wade; B.Sc.(Agr.), M.Sc.(Agr.)(Dublin), Ph.D.(C'nell)
 David Zadworny; B.Sc., Ph.D.(Guelph)

Assistant Professors

Martin Chénier; B.Sc.(Laval), M.Sc.(Queb.), Ph.D.(McG.)
 Raj Duggavathi; B.V.Sc., M.V.Sc.(Bangalore), Ph.D.(Sask.)

Adjunct Professors

Hernan Baldassarre
 Eveline Ibeagha-Awemu
 Pierre Lacasse
 Daniel Lefebvre
 Bruce Murphy

2.10 Department of Bioresource Engineering

2.10.1 Location

Macdonald Stewart Building, Room MS1-027
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7773
 Fax: 514-398-8387
 Email: shiv.prasher@mcgill.ca
 Website: www.mcgill.ca/bioeng

2.10.2 About the Department of Bioresource Engineering

Bioresource Engineering is an interdisciplinary program that integrates engineering, design, and the biological sciences. It is a unique profession that applies engineering principles to the enhancement and sustainability of the world's natural resources. Bioresource engineers seek solutions to problems that involve plants, animals, and the environment. Bioresource Engineering includes the design, construction, operation, maintenance, remediation, and upgrading of systems that contain biological components. This also includes the design of many of the technological constructions that are part of such systems. Thus, Bioresource Engineering includes quite a few sub-disciplines, which are linked because of their biological orientation.

2.10.3 Department of Bioresource Engineering Faculty

Chair

Shiv O. Prasher

Emeritus Professors

Robert S. Broughton; B.S.A., B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), LL.D.(Dal.)

Robert Kok; B.E.Sc., Ph.D.(W. Ont.)

Professors

Chandra Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.) (*James McGill Professor*)

Edward McKyes; B.Eng., M.Eng., Ph.D.(McG.)

Shiv O. Prasher; B.S.A., B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), LL.D.(Dal.) (*James McGill Professor*)

G.S. Vijaya Raghavan; B.Eng.(B'lore), M.Sc.(Guelph), Ph.D.(Colo. St.), D.Sc.(TNAU) (*James McGill Professor*)

Associate Professors

Viacheslav Adamchuk; B.Sc.(Kyiv, Ukraine), M.Sc., Ph.D.(Purd.)

Michael O. Ngadi; B.Eng.(Agr.Eng.), M.A.Sc., Ph.D.(Dal.Tech.) (*William Dawson Scholar*)

Valérie Orsat; B.Sc., M.Sc., Ph.D.(McG.)

Assistant Professors

Jan Adamowski; B.Eng.(RMC), M.Phil.(Camb.), M.B.A.(WUT, LBS, HEC, NHH), Ph.D.(Warsaw)

Grant Clark; B.Sc.(Alta.), M.Sc., Ph.D.(McG.)

Marie-Josée Dumont; B.Eng, M.Sc.(Laval), Ph.D.(Alta.)

Mark Lefsrud; B.Sc.(Sask.), M.Sc.(Rutg.), Ph.D.(Tenn.)

Zhiming Qi; B.Sc., M.Sc.(China), Ph.D.(Iowa)

Adjunct Professors

Murray Clamen; B.Eng., Ph.D.(McG.)

Farhang Daneshmand; B.Sc., M.Sc., Ph.D.(Iran)

Satya Dev; B.Tech.(India), M.Sc., Ph.D.(McG.)

Pierre Jutras; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(McG.)

Ali Madani; B.Sc.(Iran), M.Sc.(Br. Col.), Ph.D.(Wash. St.)

Jose Martinez; M.Sc.(Polytechnic Inst. of Toulouse), Ph.D.(U. of Perpignan)

Arun Mujumdar; B.Eng.(India), M.Eng., Ph.D.(McG.)

Boris Tartakovsky; M.Sc., Ph.D.(Moscow State U.)

Clément Vigneault; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Faculty Lecturers

Alice Cherestes; B.Sc., M.Sc.(Queens College), Ph.D.(CUNY)

Marcia Knutt; M.B.Sc.(W. Ont.), M.A., Ph.D.(Brandeis)

2.11 Department of Food Science and Agricultural Chemistry

2.11.1 Location

Macdonald-Stewart Building, Room MS1-034
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7898

Fax: 514-398-7977

Email: foodscience@mcgill.ca

Website: www.mcgill.ca/foodscience

2.11.2 About the Department of Food Science

Food Science is a multidisciplinary field involving chemistry, biochemistry, nutrition, microbiology, and processing that gives students the scientific knowledge to solve real problems associated with the many facets of the food system. Food Science is still a relatively new and growing discipline, brought about mainly as a response to the social changes taking place in North America and other parts of the developed world. The current trend toward merger between **food** and **pharmaceutical industries** to produce the next generation of new food products such as functional foods and nutraceuticals is the biggest challenge facing the discipline of Food Science today. You can be part of it. The programs offered are: **B.Sc. Food Science (Food Chemistry or Food Science option)** and **Concurrent degree, which includes B.Sc. Food Science/B.Sc. Nutritional Sciences**. For more information on these programs, see [section 2.6.4: Bachelor of Science \(Food Science\) - B.Sc.\(F.Sc.\)](#).

2.11.3 Department of Food Science and Agricultural Chemistry Faculty

Chair

Varoujan Yaylayan

Professors

Inteaz Alli; B.Sc.(Guy.), M.Sc., Ph.D.(McG.)

Hosahalli S. Ramaswamy; B.Sc.(B'lore), M.Sc., Ph.D.(Br. Col.)

Varoujan Yaylayan; B.Sc.(Beirut), M.Sc., Ph.D.(Alta.)

Associate Professors

Ashraf A. Ismail; B.Sc., Ph.D.(McG.)

Selim Kermasha; B.Sc.(Baghdad), C.E.S, D.E.A, D.Sc.(Nancy)

Benjamin K. Simpson; B.Sc.(Ghana), Ph.D.(Nfld.)

Assistant Professors

Martin Chénier; B.Sc.(Laval), M.Sc.(IAF), Ph.D.(McG.)

Salwa Karboune; B.Sc., M.Sc.(Rabat), D.E.A., Ph.D.(Marseille)

Professor Post-Retirement

Frederik R. van de Voort; B.Sc., M.Sc., Ph.D.(Br. Col.)

Emeritus Professor

William D. Marshall; B.Sc.(New Br.), Ph.D.(McM.)

2.12 Department of Natural Resource Sciences

2.12.1 Location

Macdonald-Stewart Building, Room MS3-040
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7890
 Fax: 514-398-7990
 Email: info@nrs.mcgill.ca
 Website: www.mcgill.ca/nrs

2.12.2 About the Department of Natural Resource Sciences

Our environment is comprised of many interacting components: interactions between the earth's atmosphere and forests or crops, between plants and other organisms in the soil, between soil properties and nutrients available to plants, between vegetation and the wildlife it supports, between ecological communities on the land and those of the rivers and lakes nearby, between microbial organisms and food, between insects, plants and animals, between human activities such as agriculture, forestry, and industrial development, and natural ecological processes. In turn, all these processes are greatly affected by the actions of governments that rely primarily on feedback from societal and industrial groups, economists, and policy experts to provide guidelines for the management of our natural resources.

The courses and academic programs offered by the Department of Natural Resource Sciences allow students to explore interactions among the components of terrestrial and aquatic ecosystems, and governance through the development of a strong, interdisciplinary background in fundamental, applied, and social sciences.

2.12.3 Department of Natural Resource Sciences Faculty

Emeritus Professors

Nayana N. Barthakur; B.Sc.(Gauh.), M.Sc.(Alld.), Ph.D.(Sask.) (*Agricultural Physics*)
 Edmund Idziak; B.Sc.(Agr.), M.Sc.(McG.), D.Sc.(Delft) (*Microbiology*)
 Angus F. Mackenzie; B.S.A., M.Sc.(Sask.), Ph.D.(C'nell) (*Soil Science*)
 Robert A. MacLeod; B.A., M.A.(Br. Col.), Ph.D.(Wisc.), F.R.S.C. (*Microbiology*)
 Peter H. Schuepp; Dipl.Sc.Nat.(Zür.), Ph.D.(Tor.) (*Agricultural Physics*)
 Robin K. Stewart; B.Sc.(Agr.), Ph.D.(Glas.) (*Entomology*)

Chair

James W. Fyles

Professors

David M. Bird; B.Sc.(Guelph), M.Sc., Ph.D.(McG.) (*Wildlife Biology*)
 Peter Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (*Environmental Policy and Ethics*) (joint appt. with Geography and McGill School of Environment)
 James W. Fyles; B.Sc., M.Sc.(Vic., BC), Ph.D.(Alta.) (*Ecosystem Ecology*) (Tomlinson Chair in Forest Ecology)
 William H. Hendershot; B.Sc.(Tor.), M.Sc.(McG.), Ph.D.(Br. Col.) (*Soil Science*)

Associate Professors

Elena Bennett; B.A.(Oberline Coll.), M.S., Ph.D.(Wisc.) (*Ecosystem Ecology*) (joint appt. with McGill School of Environment)
 Christopher Buddle; B.Sc.(Guelph), Ph.D.(Alta.) (*Forest Insect Ecology*)
 Benoît Côté; B.Sc., Ph.D.(Laval) (*Forest Resources*)
 Brian T. Driscoll; B.Sc., Ph.D.(McM.) (*Microbiology*)
 Gary B. Dunphy; B.Sc.(New Br.), M.Sc., Ph.D.(Nfld.) (*Entomology*)

Associate Professors

John Henning; B.Sc., Ph.D.(Guelph) (*Agricultural Economics*)
 Murray Humphries; B.Sc.(Manit.), M.Sc.(Alta.), Ph.D.(McG.) (*Wildlife Biology*)
 David J. Lewis; B.Sc., M.Sc., Ph.D.(Nfld.) (*Entomology*)
 Ian Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*Micrometeorology*)
 Paul Thomassin; B.Sc.(McG.), M.S., Ph.D.(Hawaii Pac.) (*Agricultural and Environmental Economics*)
 Joann Whalen; B.Sc.(Agr.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.) (*Soil Science*)
 Terry A. Wheeler; B.Sc.(Nfld.), M.Sc., Ph.D.(Guelph) (*Entomology*)
 Lyle Whyte; B.Sc.(Regina), Ph.D.(Wat.) (*Microbiology*)

Assistant Professors

Jeffrey Cardille; B.Sc.(Carn. Mell.), M.Sc.(Georgia Tech.), M.Sc., Ph.D.(Wisc.) (*Landscape Ecology*) (*joint appt. with McGill School of Environment*)
 Sebastien Faucher; B.Sc., Ph.D.(Montr.) (*Microbiology*)
 Gordon Hickey; B.Sc.(Melb.), Ph.D.(Br. Col.), EMPA (ANZSOG, Monash) (*Sustainable Natural Resource Management*)
 Nicolas Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Univ. of Kent, Univ. Autonoma de Barcelona), Ph.D.(Univ. Autonoma de Barcelona) (*Ecological Economics*) (*joint appt. with McGill School of Environment*)
 Anwar Naseem; B.Sc.(McG.), M.Sc., Ph.D.(Mich.) (*Agricultural Economics*)
 Christopher Solomon; B.Sc.(C'nell), Ph.D.(Wisc.) (*Fish Ecology*)

Curator

Stephanie Boucher

Associate Members

Colin A. Chapman (*Anthropology*)
 Lauren J. Chapman (*Biology*)
 Martin Chénier (*Food Science and Agricultural Chemistry*)
 David Green (*Redpath Museum*)
 Marilyn Scott (*Institute of Parasitology*)
 Donald L. Smith (*Dept. of Plant Science*)
 Ismael Vaccaro (*Anthropology*)

Adjunct Professors

Denis Angers
 Guy Boivin
 Michel Bouchard
 Kimberly Fernie
 Charles W. Greer
 Daniel Houle
 James Macdonald
 Joe Nocera
 Geoffrey Sunahara

2.13 Department of Plant Science

2.13.1 Location

Raymond Building, Room R2-019
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7851
 Fax: 514-398-7897
 Email: plant.science@mcgill.ca
 Website: www.mcgill.ca/plant

2.13.2 About the Department of Plant Science

Our understanding of biological systems has advanced exponentially during the 20th century, and technological developments now allow us to pose questions that simply could not be asked a few decades ago. We also live at a time of great challenges: the human population is now close to 7 billion and continues to rise at an alarming rate, the climate is changing, worldwide energy availability is going down, quality freshwater is getting scarce, biodiversity is disappearing, and a number of wild habitats are threatened by human activities.

Plant scientists have a crucial role to play in solving several of these problems. How can we keep feeding the growing population with quality food, while the resources to do so are scarcer than ever? How will plants react to a changing climate? How can we design effective conservation strategies to preserve biodiversity? The challenge of using the knowledge accumulated in the field of biology to answer these questions falls in great part to plant scientists.

The Department of Plant Science contributes to several undergraduate programs that will train tomorrow's agrologists, ecologists, botanists, and biotechnologists. These include specializations in Ecological Agriculture, Plant Biology, Plant Production, and also the Environmetrics and Food Production and Environment Domains of the McGill School of the Environment. See related program information under [section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#).

2.13.3 Department of Plant Science Faculty

Chair

Philippe Seguin

Emeritus Professors

Deborah Buszard; B.Sc.(Bath), Ph.D.(Lond.)

Ralph H. Estey; B.Ed.(New Br.), M.S.(Maine), D.I.C.(Imp. Coll.), B.Sc.(Agr.), Ph.D.(McG.), F.L.S.

Professors

Pierre Dutilleul; L.Sc., D.Sc.(Louvain)

Donald L. Smith; B.Sc., M.Sc.(Acad.), Ph.D.(Guelph)

Alan K. Watson; B.Sc.(Agr.), M.Sc.(Br. Col.), Ph.D.(Sask.)

Associate Professors

Jacqueline C. Bede; B.Sc.(Calg.), M.Sc., Ph.D.(Tor.)

Sylvie de Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.)

Danielle J. Donnelly; B.Sc.(Agr.)(McG.), M.Sc.(Br. Col.), Ph.D.(S. Fraser)

Suha Jabaji; B.Sc.(Beirut), M.Sc.(Guelph), Ph.D.(Wat.)

Ajjamada C. Kushalappa; B.Sc., M.Sc.(B' Lore), Ph.D.(Flor.)

Philippe Seguin; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Minn.)

Katrine A. Stewart; B.S.A.(Br.Col.), Ph.D.(R'dg) (*Post-Retirement*)

Martina V. Stromvik; B.A., M.Sc.(Stockholm), Ph.D.(Ill.)

Associate Professors

Marcia J. Waterway; B.A.(Grand Rapids), M.S.(Wisc.), Ph.D.(C'nell)

Assistant Professors

Jean-Benoit Charron; B.Sc.(Montr.), M.Sc., Ph.D.(UQAM)

Valérie Gravel; B.Sc.(Agr.), M.Sc., Ph.D.(Laval)

Jaswinder Singh; B.Sc.(Agr.), M.Sc.(Punjab), Ph.D.(Syd.)

Faculty Lecturers

Caroline Begg; B.Sc.(Agr.)(McG.), M.Sc.(Sask.), Ph.D.(McG.)

Serge Lussier; B.Sc.(Agr.)(McG.)

David Wees; B.Sc.(Agr.), M.Sc.(McG.)

Associate Members

Gregory Brown (*Department of Biology*)

Timothy A. Johns (*School of Dietetics and Human Nutrition*)

Adjunct Professors

Annick Bertrand

Sylvie Jenni

Shahrokh Khanizadeh

2.14 School of Dietetics and Human Nutrition

2.14.1 Location

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 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7840

Fax: 514-398-7739

Email: nutrition.dietetics@mcgill.ca

Website: www.mcgill.ca/dietetics

2.14.2 About the School of Dietetics and Human Nutrition

Health and well-being of individuals in relation to food choices and physiological status prevails as the unifying theme of the programs in the School of Dietetics and Human Nutrition. The availability of food, normal metabolism and clinical nutrition, community nutrition at the local and international level, the evaluation of nutritional products and their use in nutrition, and the communication of information about food and health form the core of academic programs.

2.14.3 School of Dietetics and Human Nutrition Faculty

Director

Kristine G. Koski

Professor Emerita

Harriet V. Kühnlein; B.S.(Penn. St.), M.S.(Ore. St.), Ph.D.(Calif.), R.D.

Professors

Luis B. Agellon; B.Sc., Ph.D.(McM.) (*Canada Research Chair*)

Timothy A. Johns; B.Sc.(McM.), M.Sc.(Br. Col.), Ph.D.(Mich.)

Associate Professors

Katherine Gray-Donald; B.Sc., Ph.D.(McG.), R.D.

Kristine G. Koski; B.S., M.S.(Wash.), Ph.D.(Calif.), R.D.

Stan Kubow; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)

Grace S. Marquis; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(C'nell) (*Canada Research Chair*)

Hugo Melgar-Quinonez; B.Sc.(Germ), M.Sc.(Johns Hop.), M.D., Dr. Sc.(Germ)

Louise Thibault; B.Sc., M.Sc., Ph.D.(Laval), Dt. P.

Hope Weiler; B.A.Sc.(Guelph), Ph.D.(McM.), R.D. (*Canada Research Chair*)

Linda Wykes; B.Sc., M.Sc., Ph.D.(Tor.) (*William Dawson Scholar*)

Lecturers

Peter Bender (PT); B.Ed., M.A.(McG.), Ph.D.(Flor. St.)

Lynda Fraser (PT); B.A., M.Ed.(Dal.)

Mary Hendrickson-Nelson; B.A.(St. Benedict), B.Sc.(Minn.), M.Sc.(Colo. St.), Dt. P.

Angel Ong; B.Sc., M.Sc.(McG.), Dt.P.

Maureen Rose; B.Sc., M.Ed., Ph.D.(McG.), Dt. P.

Joane Routhier; B.Sc.(McG.)

Sandy Phillips; B.Sc., M.Sc.(A.)(McG.), Dt. P.

Hugues Plourde; B.Sc.(McG.), M.Sc.(Montr.), Dt. P.

TBA

Adjunct Professors

Laurie H.M. Chan; B.Sc., M.Phil(HK), Ph.D.(Queen Mary, Lond.)

Kevin A. Cockell; B.Sc., Ph.D.(Guelph)

Grace Egeland; B.A.(Iowa), Ph.D.(Pitt)

Academic Associate

Linda Jacobs-Starkey; B.Sc.(Mt. St. Vin.), M.Sc., Ph.D.(McG.), R.D., F.D.C.

Cross-Appointed Staff

Food Science and Agricultural Chemistry: Selim Kermasha

Medicine: Ross Andersen, Louis Beaumier, Franco Carli, Stephanie Chevalier, Réjeanne Gougeon, L. John Hoffer, Larry Lands, Ralph Lattermann, Errol Marliss, José Morais, Celia Rodd, Thomas Schricker, Jean-François Yale

Parasitology: Marilyn E. Scott

MUHC: Sonya Page

2.15 Institute of Parasitology**2.15.1 Location**

Institute of Parasitology

Parasitology Building

McGill University, Macdonald Campus

21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Canada

Telephone: 514-398-7722
 Fax: 514-398-7857
 Email: graduate.parasitology@mcgill.ca
 Website: www.mcgill.ca/parasitology

2.15.2 Institute of Parasitology Faculty

Director

Timothy Geary

Professors

John Dalton; B.Sc., Ph.D.(Dublin) (*Canada Research Chair in Infectious Diseases*)
 Timothy Geary; B.Sc.(Notre Dame), Ph.D.(Mich.) (*Canada Research Chair in Parasite Biotechnology*)
 Roger Prichard; B.Sc., Ph.D.(NSW) (*James McGill Professor*)
 Marilyn Scott; B.Sc.(New Br.), Ph.D.(McG.)

Associate Professors

Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)
 Elias Georges; B.Sc., Ph.D.(McG.)
 Armando Jardim; B.Sc., Ph.D.(Vic., BC)
 Paula Ribeiro; B.Sc., Ph.D.(York)
 Reza Salavati; B.A., M.A.(Calif. St.), Ph.D.(Wesl.)

Assistant Professor

Petra Rohrbach; B.Sc.(McG.), Ph.D.(Heidelberg, Germany)

Associate Members

Greg Matlashewski; B.Sc.(C'dia), Ph.D.(Ott.)
 Martin Olivier; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)
 Mary Stevenson; B.A.(Hood College, Maryland), M.S., Ph.D.(Catholic Univ. of America, Washington DC)
 Brian Ward; M.Sc.(Oxf.), M.D., C.M.(McG.), DTM & H(Doctor of Tropical Medicine and Hygiene)(Lond.)

Adjunct Professors

Florence Dzierzinski; B.Sc., M.Sc., Ph.D.(Lille, France)
 Sean Forrester; B.Sc.(Cape Breton), M.Sc.(Lake.), Ph.D.(McG.)
 David Marcogliese; B.Sc.(C'dia), M.Sc.(Dal.), Ph.D.(Wake Forest Univ. N. Carolina)

2.16 Instructional Staff

Instructional Staff

Adamchuk, Viacheslav I.; B.S.(National Agricultural Univ. of Ukraine), M.S., Ph.D.(Purd.); Associate Professor of Bioresource Engineering
 Adamowski, Jan; B.Eng.(RMC), M.Phil.(Camb./MIT), M.B.A.(Warsaw/HEC Paris/London Business School/Norwegian School of Economics and Business Administration), Ph.D.(Warsaw); Assistant Professor of Bioresource Engineering
 Agellon, Luis B.; B.Sc., Ph.D.(McM.); Professor of Human Nutrition (*Canada Research Chair*)
 Alli, Inteaz; B.Sc.(Guyana), M.Sc., Ph.D.(McG.); Professor of Food Science and Agricultural Chemistry

Instructional Staff

Bede, Jacqueline; B.Sc.(Calg.), M.Sc., Ph.D.(Tor.); Associate Professor of Plant Science

Beech, Robin N.; B.Sc.(Nott.), Ph.D.(Edin.); Associate Professor of Parasitology

Begg, Caroline; B.Sc.(Agr.)(McG.), M.Sc.(Sask.), Ph.D.(McG.); Faculty Lecturer, Department of Plant Science

Bennett, Elena; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.); Associate Professor of Ecosystem Ecology and McGill School of Environment

Bird, David M.; B.Sc.(Guelph), M.Sc., Ph.D.(McG.); Fellow A.O.U., Professor of Wildlife Biology and Director, Avian Science and Conservation Centre

Bordignon, Vilceu; Ag.Tec.(EAPC), M.Sc., D.V.M.(Universidade da Região da Campanha (Brazil)), Ph.D.(Montr.); Associate Professor of Animal Science

Brown, Peter G.; B.A.(Haver.), M.A., Ph.D.(Col.); Professor of Natural Resource Sciences (*joint appoint. with Geography and McGill School of Environment*)

Buddle, Christopher; B.Sc.(Guelph), Ph.D.(Alta.); Associate Professor of Forest Insect Ecology

Cardille, Jeffrey A.; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), M.Sc., Ph.D.(Wisc.); Assistant Professor of Landscape Ecology and McGill School of Environment

Charron, Jean-Benoit; B.Sc.(Montr.), M.Sc., Ph.D.(UQAM); Assistant Professor of Plant Science

Chenier, Martin R.; B.Sc., M.Sc.(Laval), Ph.D.(McG.); Assistant Professor of Food Safety

Cherestes, Alice; B.A., M.A., Ph.D.(CUNY); Faculty Lecturer, Faculty of Agricultural and Environmental Sciences

Clark, Grant; B.Sc.(Agr.Eng.)(Alta.), Ph.D.(McG.); Assistant Professor of Bioresource Engineering

Côté, Benoît; B.Sc., Ph.D.(Laval); Associate Professor of Woodland Resources

Cue, Roger I.; B.Sc.(Newcastle, UK), Ph.D.(Edin.); Associate Professor of Animal Science

Dalton, John P.; B.Sc., Ph.D.(Dublin); Professor of Parasitology (*Canada Research Chair*)

de Blois, Sylvie; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.); Associate Professor of Plant Science and McGill School of Environment

Donnelly, Danielle J.; B.Sc.(Agr.)(McG.), M.Sc.(Br. Col.), Ph.D.(S. Fraser); Associate Professor of Plant Science

Driscoll, Brian T.; B.Sc., Ph.D.(McM.); Associate Professor of Microbiology

Duggavathi, Rajesha; B.V.Sc., M.V.Sc.(Univ. of Agricultural Sciences, Bangalore), Ph.D.(Sask.); Assistant Professor of Animal Science

Dumont, Marie-Josée; B.Eng., M.Eng.(Laval), Ph.D.(Alta.); Assistant Professor of Bioresource Engineering

Dunphy, Gary B.; B.Sc.(New Br.), M.Sc., Ph.D.(Nfld.); Associate Professor of Entomology

Dutilleul, Pierre R.; B.Sc., Ph.D.(Belgium); Professor of Statistics

Ellyett, William R.; B.A.(Sir G. Wms.), B.Ed.(P.E.)(McG.); Faculty Lecturer (PT), Farm Management and Technology Program and Director of Athletics

Enright, Peter; B.Sc.(Agr.Eng.), M.Sc.(McG.); Faculty Lecturer, Director, Farm Management and Technology Program

Faucher, Sébastien P.; B.Sc., M.Sc., Ph.D.(Montr.); Assistant Professor of Microbiology

Fyles, James W.; B.Sc., M.Sc.(Vic., BC), Ph.D.(Alta.); Professor of Woodland Resources, Chair of Department of Natural Resource Sciences (*Tomlinson Chair in Forest Ecology*)

Geary, Timothy G.; B.Sc.(Notre Dame), Ph.D.(Mich.); Professor of Parasitology, Director, Institute of Parasitology, (*Canada Research Chair in Parasite Biotechnology*)

Georges, Elias; B.Sc., Ph.D.(McG.); Associate Professor of Parasitology

Gray-Donald, Katherine; B.Sc., Ph.D.(McG.); Associate Professor of Human Nutrition

Gravel, Valerie; B.Sc.(Agr.), M.Sc., Ph.D.(Laval); Assistant Professor of Plant Science

Hayes, J. Flannan; B.Agr.Sc., M.Agr.Sc.(Dublin), Ph.D.(N. Carolina St.); Professor of Animal Science

Hendershot, William H.; B.Sc.(Tor.), M.Sc.(McG.), Ph.D.(Br. Col.); Associate Dean (Academic), Professor of Soil Science

Hendrickson-Nelson, Mary; B.A.(College of St. Benedict), B.Sc.(Minn.), M.Sc.(Colo. St.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Henning, John C.; B.Sc., Ph.D.(Guelph); Associate Professor of Agricultural Economics

Hickey, Gordon M.; B.F.Sc.(Melb.), Ph.D.(Br. Col.); Assistant Professor of Natural Resource Sciences

Humphries, Murray; B.Sc.(Manit.), Ph.D.(Alta.); Associate Professor of Wildlife Biology, Director of the Centre for Indigenous Peoples' Nutrition and Environment

Ismail, Ashraf A.; B.Sc., Ph.D.(McG.); Associate Professor of Food Science and Agricultural Chemistry

Jabaji, Suha; B.Sc.(AUB), M.Sc.(Guelph), Ph.D.(Wat.); Associate Professor of Plant Science and Associate Dean (Research)

Instructional Staff

Jardim, Armando; B.Sc., Ph.D.(Vic., BC); Associate Professor of Parasitology

Johns, Timothy A.; B.Sc.(McM.), M.Sc.(Br. Col.), Ph.D.(Mich.); Professor of Human Nutrition

Karboune, Salwa; B.Sc., M.Sc.(Institut Agronomique et Vétérinaire Hassan II), Ph.D.(Univ. de la Méditerranée); Assistant Professor of Food Science

Kermasha, Selim; B.Sc.(Baghdad), D.Sc.(Nancy); Associate Professor of Food Science and Agricultural Chemistry

Kimmins, Sarah; B.Sc.(Dal.), M.Sc.(Nova Scotia Ag.), Ph.D.(Dal.); Associate Professor of Animal Science (*Canada Research Chair*)

Knutt, Marcia E.; H.B.Sc.(W. Ont.), M.A., Ph.D.(Brandeis); Faculty Lecturer, Department of Bioresource Engineering

Koski, Kristine G.; B.S., M.S.(Wash.), Ph.D.(Calif., Davis); Associate Professor of Human Nutrition and Director, School of Dietetics and Human Nutrition

Kosoy, Nicolas; B.Sc.(Universidad Simon Bolivar), M.Sc.(Kent), M.Sc.(Universidad Autonoma de Barcelona), Ph.D.(Univ. of Tilburg); Assistant Professor of Environmental and Ecological Economics and McGill School of Environment

Kubow, Stan; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph); Associate Professor of Dietetics and Human Nutrition

Kushalappa, Ajjamada C.; B.Sc., M.Sc.(B'lore), Ph.D.(Flor.); Associate Professor of Plant Science

Lefsrud, Mark G.; B.S.(Sask.), M.S.(Rutg.), Ph.D.(Tenn.); Assistant Professor of Bioresource Engineering

Lewis, David J.; B.Sc., M.Sc., Ph.D.(Mem.); Associate Dean (Student Affairs) and Associate Professor of Entomology

Lussier, Serge; B.Sc.(Agr.)(McG.); Assistant Director and Faculty Lecturer, Farm Management and Technology Program

Madramootoo, Chandra; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.); P.Eng., Dean (*James McGill Professor*)

Major, Julie; B.Sc.(McG.), M.Sc., Ph.D.(C'nell); Faculty Lecturer, Faculty of Agricultural and Environmental Sciences

Marquis, Grace S.; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(C'nell); Associate Professor of Human Nutrition (*Canada Research Chair*)

McKyes, Edward; B.Eng., M.Eng., Ph.D.(McG.), F.C.S.A.E.; Professor of Bioresource Engineering

Melgar-Qui onez, Hugo Ramiro; M.D., Dr.Sc.(Friedrich Schiller University of Jena); Associate Professor of Dietetics and Human Nutrition and Director, McGill Institute for Global Food Security

Moffat, Donald; B.Ed.(P.E.)(McG.), Grad. Dip. in Sports Admin.(C'dia); Faculty Lecturer (PT), Farm Management and Technology Program and Coordinator Campus Recreation, Athletics and Recreation

Molgat, Christian; B.Sc.(Guelph), B.Sc.(Ott.); Faculty Lecturer, Farm Management and Technology Program

Monardes, Humberto G.; B.Sc.(Concepcion, Chile), M.Sc., Ph.D.(McG.); Associate Professor of Animal Science

Mustafa, Arif F.; B.Sc., M.Sc.(Khartoum), Ph.D.(Sask.); Associate Professor of Animal Science

Naseem, Anwar; B.Sc.(McG.), M.A., M.Sc.(Penn.), Ph.D.(Mich. St.); Assistant Professor of Agricultural Economics

Ngadi, Michael O.; B.Eng.(Nigeria), M.A.Sc., Ph.D.(Nova Scotia T.C.); Professor of Bioresource Engineering (*William Dawson Scholar*)

Ong, Angel; B.Sc., M.Sc.(McG.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Orsat, Valerie; B.Sc., M.Sc., Ph.D.(McG.); Associate Professor of Bioresource Engineering

Phillip, Leroy E.; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Guelph); Associate Professor of Animal Science

Phillips, Sandra; B.A.(Qu.), B.Sc.(F.Sc.), M.Sc.(McG.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Plourde, Hugues; B.Sc.(Nutr.Sci.)(McG.), M.Sc.(Nutr.)(Montr.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Prasher, Shiv O.; B.Tech., M.Tech.(Punjab), Ph.D.(Br. Col.); Professor of Bioresource Engineering and Chair of Department (*James McGill Professor*)

Prichard, Roger K.; B.Sc., Ph.D.(N.S.W.); Professor, Institute of Parasitology (*James McGill Professor*)

Qi, Zhiming; B.S., M.S.(China Agricultural University), Ph.D.(Iowa St.); Assistant Professor of Bioresource Engineering

Raghavan, G.S. Vijaya; B.Eng.(Bangalore), M.Sc.(Guelph), Ph.D.(Colo. St.); F.A.S.A.E., F.C.S.A.E., F.A.S.M.E., F.R.S.C.; Professor of Bioresource Engineering (*James McGill Professor*)

Ramaswamy, Hosahalli; B.Sc.(Bangalore), M.Sc.(Mysore), M.Sc., Ph.D.(Br. Col.); Professor of Food Science and Agricultural Chemistry

Ribeiro, Paula A.; B.Sc., Ph.D.(York); Associate Professor of Parasitology

Rohrbach, Petra; B.Sc.(McG.), Diplom Biology(Heidel.), Dr. rer. Nat.(Deutsches Krebsforschungszentrum); Assistant Professor of Parasitology

Rose, Maureen; B.Sc.(F.Sc.), M.Ed., Ph.D.(McG.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Routhier, Joane; B.Sc.(F.Sc.)(McG.); Faculty Lecturer (Stage), School of Dietetics and Human Nutrition

Salavati, Reza; B.A., M.A.(Calif. St.), Ph.D.(Wesl.); Associate Professor of Parasitology

Instructional Staff

Scott, Marilyn E.; B.Sc.(New Br.), Ph.D.(McG.); Professor of Parasitology and Director, McGill School of Environment

Seguin, Philippe; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Minn.); Associate Professor of Plant Science and Chair of Department

Simpson, Benjamin K.; B.Sc.(Univ. Sc. & Tech., Kumasi), Ph.D.(Nfld.); Associate Professor of Food Science and Agricultural Chemistry

Singh, Jaswinder; B.Sc., M.Sc.(Punjab Agricultural University), Ph.D.(Syd.); Assistant Professor of Plant Science

Smith, Donald L.; B.Sc., M.Sc.(Acad.), Ph.D.(Guelph); Professor of Plant Science (*James McGill Professor*)

Solomon, Christopher T.; B.Sc.(C'nell), Ph.D.(Wisc.); Assistant Professor of Fish Biology

Strachan, Ian; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.); Associate Professor of Agrometeorology and Associate Dean (Graduate Studies)

Stromvik, Martina V.; B.A., M.S.(Stockholm), Ph.D.(Ill.-Chic.); Associate Professor of Plant Science

Thériault, Pascal; B.Sc.(Agr.), M.Sc.(KSU); Faculty Lecturer, Farm Management and Technology Program

Thibault, Louise; B.Sc., M.Sc., Ph.D.(Laval); Associate Professor of Dietetics and Human Nutrition

Thomassin, Paul; B.Sc.(Agr.)(McG.), M.S., Ph.D.(Hawaii Pac.); Associate Professor of Agricultural Economics

Wade, Kevin; B.Agr.Sc., M.Agr.Sc.(Dublin), Ph.D.(C'nell); Associate Professor of Animal Science and Chair, Department of Animal Science

Waterway, Marcia J.; B.A.(Calvin), M.S.(Wisc.), Ph.D.(C'nell); Associate Professor of Plant Science and Curator, McGill University Herbarium

Watson, Alan K.; B.Sc.(Agr.), M.Sc.(Br. Col.), Ph.D.(Sask.); Professor of Agronomy and Director, Phytorium/Biopesticide Quarantine Facility

Wees, David D.; B.Sc.(Agr.), M.Sc.(McG.); Faculty Lecturer, Department of Plant Science

Weiler, Hope; B.A.Sc.(Guelph), Ph.D.(McM.); Associate Professor of Human Nutrition (*Canada Research Chair*)

Whalen, Joann; B.Sc.(Agr.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.); Associate Professor of Soil Science (*William Dawson Scholar*)

Wheeler, Terry; B.Sc.(Nfld.), M.Sc., Ph.D.(Guelph); Associate Professor of Entomology and Director, Lyman Entomological Museum and Research Laboratory

Whyte, Lyle G.; B.Sc.(Regina), Ph.D.(Wat.); Associate Professor of Microbiology (*Canada Research Chair*)

Wykes, Linda; B.Sc., M.Sc., Ph.D.(Tor.); Professor of Dietetics and Human Nutrition (*William Dawson Scholar*)

Yaylayan, Varoujan A.; B.Sc., M.Sc.(Beirut), Ph.D.(Alta.); Professor of Food Science and Agricultural Chemistry and Chair of Department

Zadworny, David; B.Sc., Ph.D.(Guelph); Associate Professor of Animal Science

Zhao, Xin; B.Sc., M.Sc.(Nanjing IT), Ph.D.(C'nell); Professor of Animal Science (*James McGill Professor*)

3 Faculty of Arts

3.1 About the Faculty of Arts

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Downtown campus is the Arts Building, the oldest building on campus and the University's flagship. It houses classrooms, administrative offices, and Moyse Hall, an elegant and superbly equipped theatre. For years, the front steps of the Arts Building have been a favourite spot to meet and to take a respite from the rigours of coursework. In addition to the Arts Building, the Faculty of Arts is housed in 24 other buildings across campus, including historic houses and former apartment buildings.

Occupying a place literally and figuratively at the heart of the University, the Faculty of Arts has enjoyed steady growth since it was established in 1843 and remains by far the largest faculty at McGill with over 280 tenured or tenure-track scholars, over 6,000 undergraduates, over 1,000 graduate students, and several hundred courses. Despite the numbers, the majority of classes in Arts are smaller than those offered by any other large research university in Canada. The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either independently or through an exchange program. Internships are rapidly becoming an important part of an undergraduate degree. The Faculty of Arts Internship Office assists students who wish to pursue short-term internship opportunities at the undergraduate level. Each year, over 200 of our students intern with organizations around the globe.

McGill is known throughout the world as one of Canada's premier institutions of learning and as one of the leading research universities in the world. Professors at McGill are leaders in their fields of expertise and leaders in education. Many of them have been the recipients of awards for innovations in teaching. The Faculty of Arts prides itself on being immediately responsive to developments and changes both within and outside academia and on developing its curricula to reflect these new realities.

3.2 History of the Faculty of Arts

McGill College, and with it the Faculty of Arts, officially opened on 6 September 1843. The early curriculum, heavily weighted in classical studies, also included lectures in mathematics, logic, French, history, geography, and law. There were very few students, only 15 by 1848.

Sir John William Dawson, who became Principal in 1855—an office he would hold until 1893—would institute numerous reforms and would lay the cornerstone for the reputation of excellence the Faculty enjoys today. In his inaugural address to the Board of Governors in November 1855, Dawson made it clear it was his intention to provide a curriculum which would range from the classics to modern languages and the professions, and from physics to engineering. Dawson worked quickly. By the late 1850s, instruction was offered in natural history, chemistry, agriculture, mathematics, natural philosophy, classics, history, English literature, logic, and mental and moral philosophy. And by 1860, enrolment in the Faculty had climbed to around 50.

1884 marked a milestone in the history of McGill and the Faculty of Arts for in that year Lord Strathcona, Donald Smith, made a donation that allowed for women to be admitted to McGill. The first class of “Donaldas” as they were called in honour of their benefactor, graduated in 1888. By 1889, women constituted one-third of the total enrolment at the College.

In the 1890s, while the general Arts course was still firmly based in the classics requiring graduating students to be prepared in Latin and Greek, mathematics, English and a paper on “the leading events in English history” were also required. Honours programs were available in the following disciplines: classical languages; mathematics and physics; mental and moral philosophy; English language, literature, and history; geology and the natural sciences; and modern languages and history.

Over the next two decades, under the leadership of Principal Sir William Peterson, the Faculty continued to expand. In the humanities, the Departments of Classics and Philosophy expanded, as did the Department of Modern Languages to which offerings in Spanish and Italian were added to those already existing in French and German. The first lectures in Economics and Political Science were offered in 1900 and the first chair in Political Economy was established in 1901. In the sciences, what had been natural philosophy divided into the disciplines of Physics, Chemistry, Botany and Zoology. By 1914, enrolment in Arts was at 776.

As the cornerstone faculty of the University, when new social science disciplines emerged over the years, and when the School of Social Work was founded in 1923, they and it were subsumed into Arts. So, too, did disciplines in the sciences. By 1931 the sciences had come to form a substantial part of the Faculty of Arts. While they had their own needs distinct from those of the humanities and social science departments, they did not want to break away from Arts entirely. The solution reached was to rename the faculty the Faculty of Arts and Science. With only minor modifications, this structure endured until 1971 when the science departments left Arts to form the Faculty of Science.

In the post-war years, the Faculty also saw other changes, including in 1967, the removal of the classical language requirement. In the humanities, the Departments of Russian and Slavic Studies, East Asian Languages and Literature, and Linguistics, the Jewish Studies and African Studies programs, and the Institute of Islamic Studies were established. The social sciences saw changes as well: as disciplines further self-defined, they separated into distinct departments. The Department of Economics and Political Science split into two as did the Department of Sociology and Anthropology. And the Faculty grew in size. Between 1950 and 1970, the number of students in the Faculty of Arts and Science increased from 2,500 to 6,000.

In the last forty years, the Faculty has continued to grow and has continued to respond to developments and changes in the world of academia and the world at large. Today, the Faculty is made up of over 20 departments, units and programs, numbers over 280 professors and over 6,000 undergraduate students, and offers several hundred courses.

Source: Frost, Stanley Brice. *McGill University for the Advancement of Learning*. (2 vols.) Montreal: McGill-Queen's University Press, 1980 (vol. 1), 1984 (vol. 2).

3.3 Programs and Teaching in Arts

Established in 1843, the Faculty of Arts is one of the oldest in Canada and remains the largest at McGill. With over 6,000 full-time students and over 280 full-time professors, the Faculty offers several hundred courses in many disciplines.

The Faculty of Arts permits students great program flexibility. Students may concentrate on one Arts discipline while obtaining minor concentrations in other disciplines in Arts or in other faculties, such as, for example, Science. McGill's historic Arts building is the centrepiece of the University's downtown campus. It houses classrooms, offices and Moyse Hall – an elegant and well-equipped performance theatre. The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either through an exchange program or independently.

McGill Arts graduates are valued for their ability to think critically and communicate effectively, often in more than one language. Their skills in research and analysis are applicable in a wide spectrum of professional fields, such as law, education, business, government, and public service.

The Faculty of Arts offers programs leading to the degrees of B.A. and B.S.W. Admission is selective; fulfilment of the minimum requirements does not guarantee acceptance. Admission criteria are described in the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

The Faculty of Arts also offers a Diploma in Environment under the McGill School of Environment, a 30-credit program available to holders of a B.Sc. or B.A. or equivalent. All credits for the Diploma must be completed at McGill. For more information, see *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.14: Diploma in Environment*.

Finally, the Faculties of Arts and of Science jointly offer programs leading to the degree of the Bachelor of Arts and Science (B.A. & Sc.), which is described under *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science*.

3.4 About the Faculty of Arts (Undergraduate)

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Downtown campus is the Arts Building, the oldest building on campus and the University's flagship. It houses classrooms, administrative offices, and Moyse Hall, an elegant and superbly equipped theatre. For years, the front steps of the Arts Building have been a favourite spot to meet and to take a respite from the rigours of coursework. In addition to the Arts Building, the Faculty of Arts is housed in 24 other buildings across campus, including historic houses and former apartment buildings.

Occupying a place literally and figuratively at the heart of the University, the Faculty of Arts has enjoyed steady growth since it was established in 1843 and remains by far the largest faculty at McGill with over 280 tenured or tenure-track scholars, over 6,000 undergraduates, over 1,000 graduate students, and several hundred courses. Despite the numbers, the majority of classes in Arts are smaller than those offered by any other large research university in Canada. The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either independently or through an exchange program. Internships are rapidly becoming an important part of an undergraduate degree. The Faculty of Arts Internship Office assists students who wish to pursue short-term internship opportunities at the undergraduate level. Each year, over 200 of our students intern with organizations around the globe.

McGill is known throughout the world as one of Canada's premier institutions of learning and as one of the leading research universities in the world. Professors at McGill are leaders in their fields of expertise and leaders in education. Many of them have been the recipients of awards for innovations in teaching. The Faculty of Arts prides itself on being immediately responsive to developments and changes both within and outside academia and on developing its curricula to reflect these new realities.

3.4.1 Location

Arts Office of Advising and Student Information Services
Dawson Hall
853 Sherbrooke Street West
Montreal, Quebec H3A 0G5
Canada

Telephone: 514-398-1029

Fax: 514-398-2157

Faculty of Arts website: www.mcgill.ca/arts

Faculty of Arts Office of Advising and Student Information Services (OASIS) website: www.mcgill.ca/oasis

Arts OASIS, and the Office of the Associate Dean (Student Affairs) of the Faculty of Arts, are located on the ground floor of Dawson Hall. For questions, our counter service is located at Room 110. Arts OASIS serves undergraduate students in the Faculty of Arts.

3.4.2 Administrative Officers

Dean

Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)

Associate Deans

Juliet Johnson; B.A.(Stan.), M.A.(Princ.), Ph.D.(Princ.) (*Research and Graduate Studies*)

Gillian Lane-Mercier; B.A., M.A.(Université de Montpellier III), Ph.D.(McG.) (*Academic and Administrative Oversight*)

Lucyna M. Lach; B.A., M.S.W., Ph.D.(Tor.) (*Student Affairs*), Arts OASIS

Course and Program Officer

Susan Sharpe

3.4.3 Faculty of Arts Office of Advising and Student Information Services (OASIS)

Arts OASIS provides ongoing advice and guidance on programs, degree requirements, registration issues, exams, rereads, academic standing, inter-faculty transfer, study away, and graduation for undergraduate Arts students.

Faculty advisers in Arts OASIS offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions. Arts OASIS advisers can be contacted via email at adviser.arts@mcgill.ca.

Arts OASIS advisers also approve course selection for U0 Arts Freshman students.

Special requests can be made, in writing, to the Associate Dean (Student Affairs). For more information, please refer to our website at www.mcgill.ca/oasis.

3.5 Faculty Admission Requirements

For information about admission requirements to the B.A., B.A. & Sc. or B.S.W., please refer to the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

For information about inter-faculty transfers, please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.3.15: Interfaculty Transfer*, as well as to the relevant information posted on the Arts OASIS website at www.mcgill.ca/oasis.

(For information about readmission, please refer to the Arts OASIS website at www.mcgill.ca/oasis.)

3.6 Faculty of Arts Degree Requirements

Each student in the Faculty of Arts must be aware of the Faculty regulations as stated in this publication and on the McGill, Arts, and Arts Office of Advising and Student Information Services (OASIS) websites.

While departmental and Faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of your course selection and registration, for compliance with, and completion of your program and degree requirements, and for the observance of regulations and deadlines, *rests with you*. It is your responsibility to seek guidance from Arts OASIS if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

To be eligible for a B.A. degree, you must fulfil all Faculty and program requirements as indicated below:

- [section 3.6.1: Minimum Credit Requirement](#)
- [section 3.6.2: Residency Requirement](#)
- *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#)*
- [section 3.6.3: Time and Credit Limit for Completion of Degree](#)
- [section 3.6.4: About Program Requirements](#)
- [section 3.6.5: Course Requirements](#)

3.6.1 Minimum Credit Requirement

You must complete the minimum credit requirement for your degree as specified in your letter of admission.

Students are normally admitted to a four-year degree requiring the completion of 120 credits, but Advanced Standing of up to 30 credits may be granted if you obtain satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement exams.

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of your program. In this case, a new GPA will be calculated. The Associate Dean (Student Affairs), in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission. For more information about readmission, see the Arts OASIS website: www.mcgill.ca/oasis.

3.6.2 Residency Requirement

To obtain a degree, you must complete a minimum of 60 credits at McGill University toward the fulfilment of your degree requirements. At least two-thirds of all program requirements (Multi-track, Honours, Faculty) must normally be completed at McGill. In addition, some departments may require that you complete specific components of your program at McGill.

Exceptionally, and subject to departmental approval, if you are in a minor concentration and you pursue an approved exchange or study away program, you may complete up to half of the minor concentration requirements elsewhere.

The residency requirement for the Diploma in Environment is 30 credits completed at McGill.

3.6.3 Time and Credit Limit for Completion of Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the degree. If you are a student in the Freshman program, you become subject to these regulations one year after your initial registration. If you need or want to exceed this time limit, you must apply to Arts OASIS for permission to continue your studies.

If you want to exceed the minimum credit requirement for your degree, you must also seek permission from Arts OASIS to continue your studies.

Permission for exceeding the time and/or credit limit will normally be granted only for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. Elective credits over the credit limit will normally be flagged for no credit and the grades will not count in the CGPA.

3.6.4 About Program Requirements

If you need 97 or more credits to complete your degree requirements (4-year degree), you are automatically registered in the Freshman program and are expected to select one of the Freshman program concentrations from the Registration Menu on Minerva. For more information, refer to www.mcgill.ca/oasis.

If you need 96 or fewer credits to complete your B.A. degree requirements (3-year degree), you must select a program at the time of registration. You may select the Multi-track system, Honours program, Joint Honours program, or Faculty program. For more information, please refer to the appropriate department: www.mcgill.ca/arts/departments. If you are unsure of which program to select, contact a faculty adviser in Arts OASIS.

3.6.4.1 Freshman Program (Overview)

If you need 97-120 credits to complete your degree requirements, you must first complete the Freshman program, which is designed to provide a basic foundation prior to selecting a departmental program the following year. You may select one of the following Freshman program options on Minerva:

- General Option
- French Option

For further details, refer to the Arts Freshman information at www.mcgill.ca/oasis.

3.6.4.1.1 Bachelor of Arts (B.A.) - Freshman Program - General (30 credits)

The Bachelor of Arts Freshman Program is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits. In the General option, students develop their own program of study using courses from the social sciences, humanities, languages, and/or math and sciences.

This 30-credit option has a core requirement of 18 credits completed by selecting 6 credits in each of three of the four Arts subject categories: social sciences, humanities, languages, and/or mathematics and science. Students select 12 additional credits from approved courses for Freshman students based on their interests. A maximum of 18 credits may be taken in any one area and a maximum of 12 credits may be taken in the courses offered by any one department. For more information, see the Arts OASIS website for newly admitted Freshman students at: <http://www.mcgill.ca/oasis>.

Core Requirement (18 credits)

18 credits with 6 credits in each of three of the four Arts categories: social sciences, humanities, languages, and mathematics and science.

The course lists below are organized by Arts category and include only courses approved by the offering department for Freshman (U0) students. Students may use these lists to plan their course selection.

Approved Courses - Social Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: If you intend to follow a psychology program, you should not register in SOCI 216 (Social Psychology). PSYC 215 (Social Psychology) is more appropriate. Credit will not be given for both courses.

Note: A few courses may be listed in both Social Sciences and in another category. For example, CANS 200 and ISLA 210 are considered to be both Social Sciences and Humanities courses.

Approved Courses - Humanities

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: A few courses may be listed in both Humanities and in another category. For example, CANS 200 is considered to be both Humanities and Social Science courses; FREN 198 and FREN 199 are considered to be both Humanities and Languages courses.

Approved Courses - Languages

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: When registering for 'D1' courses, you MUST also register for the second part 'D2' of this full-year course.

Note: No more than one language should be taken at the introductory level during the Freshman year. Students with prior knowledge of the language may take higher-level courses with permission from the department.

Note: A few courses may be listed in both Languages and in another category. For example, FREN 198 and FREN 199 are considered to be both Languages and Humanities courses.

Approved Courses - Mathematics and Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: GEOG 205 is listed as a Mathematics and Sciences course as well as a Social Sciences course.

3.6.4.1.2 Bachelor of Arts (B.A.) - Freshman Program - French (30 credits)

The Bachelor of Arts Freshman Program is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits in one of two program options. In the "En français" or French option, students choose up to 18 credits from a variety of courses conducted in French. These credits may be comprised wholly of language courses, wholly of substantive content courses conducted in French, or a combination of the two.

Core Requirement (18 credits)

Based on their proficiency in French, students select 18 credits from the courses below in French Language and Literature and French as a Second Language.

French Language and Literature Courses (FREN)

FREN 199	(3)	FYS: Littérature française
FREN 201	(3)	Composition 1
FREN 203	(3)	Composition 2
FREN 231	(3)	Linguistique française
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire avancée

French as a Second Language (FRSL)

Depending on their level of proficiency, students may include a maximum of 12 credits of intensive French language courses. An intensive language course is a 6 credit term course. Students at the introductory level must take at least 6 credits in French in their Freshman year but may be permitted to complete the remaining core requirement credits in year U1.

FRSL 101D1	(3)	Beginners' French
FRSL 101D2	(3)	Beginners' French
FRSL 103	(3)	Near Beginners' French
FRSL 104	(3)	Corrective French Pronunciation
FRSL 105	(6)	Intensive Beginners' French
FRSL 206	(3)	Elementary French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales

FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le Français des médias
FRSL 455	(3)	Grammaire et création

Substantive Content Courses Taught in French

Some subject area courses or "substantive content courses" are taught in French. Some courses may be offered in French and English in alternate years. POLI 226 listed below is such a course. When taught in French, such courses may be counted toward this program.

POLI 226	(3)	La vie politique québécoise

Remaining Credits (12 credits)

Students select the remaining credits (normally 12) for their Freshman year from a list of approved courses for Arts Freshman students. This list is found with requirements for the Freshman Program - General option on the Arts OASIS website at: <http://www.mcgill.ca/oasis/>.

3.6.4.2 Departmental Programs

If you need 96 or fewer credits to complete your degree requirements, you are required to have an approved program (Multi-track, Honours, Faculty), and to select your courses in each term with a view to timely completion of your degree and program requirements. No course may fulfil the requirements for more than one program or concentration requirement. You must complete one of the following program streams:

3.6.4.2.1 Bachelor of Arts Degree: Multi-Track System

To recognize the diversity of student backgrounds and interests and the multiple routes to understanding provided by a modern university, the Faculty of Arts offers a 90-credit multi-track system that includes a major concentration complemented by at least a minor concentration and that may be completed in one of the following ways:

Options

A	Major Concentration (36) + Minor Concentration (18) + 36 credits of electives
B	Major Concentration (36) + Major Concentration (36) + 18 credits of electives
C	Major Concentration (36) + Minor Concentration (18) + Minor Concentration (18) + 18 credits of electives

Regulations

- Within option A and option B, all Concentrations must be in different academic units. (If you are completing a second degree in the Faculty of Arts, this regulation is waived.)
- Within option C, one of the Minor Concentrations may be in the same unit as the Major Concentration. If you pursue a same-unit Minor Concentration, you will substitute additional complementary (non-required) courses to a total of 18 credits for any courses completed as a part of your Major Concentration within that unit.
- You will include within the 36 or 18 credits of your Major or Minor Concentration any university-level (200 or above) prerequisites to required courses within their Concentrations.

Definitions

- *Units*: academic departments or administrative equivalents.
- *Programs*: lists of required and complementary courses (including prerequisites for required courses) prepared and maintained by units.
- *Major Concentration*: a program of 36 credits taken from a unit's course offerings.
- *Minor Concentration*: a program of 18 credits taken from a unit's course offerings. Expandable Minor Concentrations are those which can, on the completion of 18 additional approved credits, be expanded into a Major Concentration within the appropriate unit.

3.6.4.2.2 Bachelor of Arts Degree: Honours Program

Honours programs demand a high degree of specialization, and require you to satisfy specific departmental and Faculty Honours requirements while maintaining a good academic standing. They are designed to prepare you for graduate study.

Regulations

- To be registered in an Honours program after the first year, you must have attained a GPA and CGPA of at least 3.00 in the previous year, unless you have special permission from the department and the Associate Dean (Student Affairs).
- To complete an Honours degree, you must achieve a minimum CGPA of 3.00. The program GPA (the GPA of all required and complementary courses taken at McGill which constitute the Honours program) must be a minimum of 3.00, although academic units may set higher requirements for their program GPA.
- In addition to the completion of the Honours requirements, you must complete at least a minor concentration in an academic unit other than the one in which the Honours requirements are satisfied. (If you complete a second degree in the Faculty of Arts, you do not need to complete a minor.)

3.6.4.2.3 Bachelor of Arts Degree: Joint Honours Program

If you want to study at the Honours level in two disciplines, you can combine Joint Honours program components from any two Arts disciplines; see [section 3.9.6: Joint Honours Programs](#) for a list of available programs. Each Joint Honours component consists of a maximum of 36 required and complementary credits (not including program prerequisites). In cases where a minimum of 24 credits are in courses normally restricted to Honours students, the total of required and complementary credits may be as few as 30.

To complete a Joint Honours degree, you must achieve a minimum CGPA of 3.00. The program GPA (the GPA of all required and complementary courses taken at McGill which constitute the Joint Honours program) must be a minimum of 3.00, although academic units may set higher requirements for your component of the program GPA.

3.6.4.2.4 Bachelor of Arts Degree: Faculty Program

A Faculty program is an approved selection of courses constituting a concentration in an intellectually coherent and inter-faculty field of studies. These courses must include approved selections from one of the following:

- The Faculties of Arts and of Science, and at least one other faculty.
- The Faculty of Arts, and at least one faculty other than the Faculty of Science.
- The Faculty of Arts currently recognizes the following Faculty programs in:
 - Industrial Relations
 - McGill School of Environment

3.6.4.2.5 Bachelor of Arts Degree: Science Minor Programs

If you want to register for a minor program offered by the Faculty of Science, you must fulfil the Arts program requirements as indicated above, as well as complete any prerequisites for the additional program. If you're interested, you must write to the Associate Dean (Student Affairs), including with your request written approval from the Science Minor Adviser.

3.6.5 Course Requirements

All required and complementary courses used to fulfil program requirements must be completed with a grade of C or better. If you fail to obtain a satisfactory grade in a required course, you must either pass the supplemental examination in the course if this option is available, or repeat the course. Course substitution will be allowed only in special cases; you should consult your departmental academic adviser.

Normally, you are permitted to repeat a failed course only once. (Failure is considered to be a grade of less than C or the administrative failures of J or KF.) To attempt a required course for the third time, you must appeal to the Associate Dean (Student Affairs) for permission. If permission is denied by the Associate Dean and/or the appeals committee, you must withdraw from the program. If the failed course is a complementary course required by your program, you may choose to replace it with another appropriate complementary course. If you choose to substitute another complementary course for a complementary course in which a D was received, credit for the first course will still be given, but as an elective. If you repeat a required course in which a D was received, credit will be given only once.

For more information on course requirements, please contact a departmental adviser (www.mcgill.ca/oasis/ba/departmental/adviser).

3.6.5.1 Course Prerequisites

The Faculty of Arts does not prevent you from registering for courses if you do not have the required prerequisites. However, if you lack the prerequisite course, you must consult with the instructor of the course you want to take, to ensure that you have the necessary background. Please note that other faculties may not allow registration without the required prerequisite courses.

3.6.5.2 Course Overlap

You will not receive additional credit toward your degree for any course that overlaps in content with a course for which you have already received credit at McGill, CEGEP, at another university, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate. It is your responsibility to consult with a faculty adviser in Arts OASIS or the department offering the course as to whether or not credit can be obtained and

to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about advanced standing credits and McGill course exemptions: www.mcgill.ca/students/courses/plan/transfer.

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for ONLY ONE of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, PSYC 204, SOCI 350.
- Credit will be given for ONLY ONE of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, MGCR 272, PSYC 305, SOCI 461. Only when ECON 227D1/D2 or ECON 257D1/D2 is combined with PSYC 305 will credit be given for both courses.
- Students who have already received credit for MATH 324 or MATH 357 will NOT receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 272, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

Credit for computer courses will be subject to the following restrictions:

- Credit for courses offered by the School of Computer Science is governed by rules specified in each individual course description.

3.6.5.3 Courses Outside the Faculties of Arts and of Science

The following regulations apply to you if you wish to take courses outside the Faculties of Arts and of Science:

- Regardless of the minimum credit requirement towards your B.A. degree, you are allowed a maximum of 12 credits in elective and/or complementary courses taken in faculties other than the Faculties of Arts and of Science.
- In certain designated programs that include a number of required and complementary courses in other faculties, you are permitted a maximum of 30 credits outside the Faculties of Arts and of Science. These programs are as follows:

Faculty programs:

- Environment
- Industrial Relations

Minors:

- Education for Arts students
- Finance for non-Management students
- Management for non-Management students
- Marketing for non-Management students
- Musical Applications of Technology
- Musical Science and Technology
- Operations Management for non-Management students

Minor concentrations:

- Educational Psychology
- Environment
- Geography Urban Systems
- Music

Major concentrations:

- Geography Urban Systems
- Music

Honours:

- Environment
- Urban Systems

Joint Honours:

- Economics and Accounting
- Economics and Finance

- If you combine any two or more of the programs listed above, you may not exceed 40 credits outside the Faculties of Arts and of Science.
- Any courses taught at McGill University may be used towards the maximum allowed with the following exceptions:
 - School of Continuing Studies: School of Continuing Studies courses with a teaching unit that starts with C are not for credit (except for CHEM and courses offered by the McGill Writing Centre).
 - Distance Education: Refer to [section 3.6.5.6: Policy on Distance Education Courses](#) in this publication.
- For the purpose of this policy, courses taught in other faculties and specifically listed in the *Arts or Science* section of the *Programs, Courses and University Regulations* publication are considered as courses taught in the Faculties of Arts and of Science.
- For the purpose of this policy, all courses taken to fulfil the requirements for an approved field semester will be considered as courses in Arts or Science.
- The maximum number of credits allowed will be strictly enforced.

3.6.5.4 Inter-University Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

If you transfer from a faculty outside the Faculties of Arts and of Science at another institution, you may transfer up to a maximum of 30 credits under the following conditions:

- Only courses passed with a grade of C or better will be transferred. Grades of C-, P or S are not acceptable. The letter grades applied by your former home institution take precedence over the numerical grades if provided.
- Decisions on whether a course is outside the Faculties of Arts and of Science will be based on the original faculty in which your course was taken.
- Refer to [section 3.6.5.6: Policy on Distance Education Courses](#).
- Transfer credits for Continuing Education courses will be granted only if the courses can be used towards a degree program in a faculty other than Continuing Education at your former home university.
- You will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, do not exceed 40 credits.**

3.6.5.5 Inter-Faculty Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

You will normally have counted for credit (for grades of D or better) and/or GPA (regardless of the grade) all courses in Arts and Science, and up to a maximum of 30 credits of courses outside of Arts and of Science.

- You will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, do not exceed 40 credits.**

3.6.5.6 Policy on Distance Education Courses

A maximum of 6 credits of elective courses taught through distance education may be used towards your degree at McGill. Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:

- the course is given by a government-accredited, degree-granting institution acceptable to McGill;
- the course counts for credit towards degrees granted at the institution giving the course;
- prior approval for the course is obtained from Arts OASIS.

The combined total of regular course credits and distance education course credits may not exceed the permitted maximum number of credits per term according to Faculty regulations. Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it. In such cases, prior approval must be obtained from your departmental academic adviser and the Associate Dean (Student Affairs).

3.6.5.7 Internship Courses

The Faculty of Arts offers internship courses for credit. For more information, refer to [section 3.10.2: Faculty of Arts Internship Program](#).

3.6.5.8 Courses in English as a Second Language – Bachelor of Arts Degree

Up to a maximum of 12 credits of CESL courses (previously known as ESLN courses), including academic writing courses for non-anglophones, are open to you if your primary language is not English and you have studied for fewer than five years in an English-language secondary institution. For more information, please refer to the [McGill Writing Centre](#) and meet with a Faculty Adviser in Arts [OASIS](#).

Placement tests are required for most CESL courses. For more information on placement tests, see www.mcgill.ca/mwc/placement-test. Soon after the placement test is evaluated, you will be issued a permit from the MWC for course registration.

3.6.5.9 First-Year Seminar Courses

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than is available in large introductory courses. These seminars endeavour to teach the latest scholarly developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis. The maximum number of students in any seminar is 25, although some are limited to even fewer than that.

You may take only one First-Year Seminar. If you register for more than one, you will be obliged to withdraw from all but one of them.

For a complete listing, see [section 3.10.1: First-Year Seminars](#).

The First-Year Seminars offered by the Faculty of Science are also open to Arts students. For a complete listing, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > section 13.6.5.5: Registration for First-Year Seminars*.

3.6.5.10 Graduate-Level Courses

Enrolment of undergraduate students in 600-level courses

Policy:

An undergraduate student will be permitted to take 600-level courses subject to the following conditions:

- The student has a minimum CGPA of 3.3.
- The student is in U3 or higher.
- The professor of the course and the program adviser or the director of the undergraduate program provide written approval supporting the request.
- A maximum of 6 credits of 600-level courses are allowed toward the degree.
- The actual course number appears on the transcript.
- The course evaluation methods and grading standards are the same for all students, whether graduate or undergraduate.
- The regulations and practices of the Faculty of Arts are also applied to such a course.

A copy of the application form is available at the Arts OASIS counter.

3.7 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult with a departmental academic adviser in your proposed department of study to obtain advice and approval of your course selection. To facilitate program planning, you must present your transcript(s) and letter of admission. For a detailed description of advising and registration procedures, you should refer to the website for newly admitted undergraduate students at www.mcgill.ca/newstudents, as well as refer to the Arts OASIS website at www.mcgill.ca/oasis, and to departmental websites.

If you need 97-120 credits to complete your degree requirements, you will normally be registered in a Freshman program until you complete your first year. You must consult with a faculty adviser in Arts OASIS to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures as a Freshman student, you should refer to the sections under *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.3: Registration* and *section 1.11: Undergraduate Advising*; to the website for newly admitted undergraduate students at www.mcgill.ca/newstudents; as well as refer to the Arts OASIS website at www.mcgill.ca/oasis.

Academic advising for all returning students takes place in March for the upcoming academic year. For more information, please refer to the "Announcements" section on the Arts OASIS website, www.mcgill.ca/oasis.

3.8 Examinations

You should refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.6.7: Final Examinations* for information about final examinations and deferred examinations.

The exam schedules are posted on the McGill website, www.mcgill.ca/students, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

3.9 Overview of Programs Offered

3.9.1 Programs in the Faculty of Arts

The Faculty of Arts offers programs leading to the degrees of B.A. and B.S.W. Admission is selective; fulfilment of the minimum requirements does not guarantee acceptance. Admission criteria are described in the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

The Faculty of Arts also offers a Diploma in Environment under the McGill School of Environment; a 30-credit program is available to holders of a B.Sc. or B.A. or equivalent. All credits for the Diploma must be completed at McGill. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *McGill School of Environment* > *Undergraduate* > [section 7.14: Diploma in Environment](#).

The Faculties of Arts and of Science jointly offer programs leading to the degree of the Bachelor of Arts and Science (B.A. & Sc.), which is described in *Programs, Courses and University Regulations* > *Faculties & Schools* > [Bachelor of Arts and Science](#).

3.9.2 The Degrees Offered

The **Bachelor of Arts** (B.A.) degree integrates the Humanities, Social Sciences, Languages, and a wide range of Interdisciplinary Studies into a coherent academic program. It is as broad and comprehensive in scope as is human behaviour and communication. Students interested in gaining insight into how society worked and people expressed themselves in the past, how society works and how people express themselves today, and what we may look for in the future, pursue a B.A. degree.

Students interested in the traditional and the avant-garde are equally at home in the Faculty of Arts. The B.A. is a degree that allows students to appreciate the interdisciplinary connections with the past in order to understand the present and prepare for a promising future. A McGill B.A. leads to a wide range of opportunities in many fields, especially those that emphasize critical thinking.

The Faculty of Arts at McGill is especially proud of its major and minor concentration programs known as the multi-track system. The multi-track system encourages flexibility, independence, and knowledge in a diversity of disciplines. It provides students with an unprecedented opportunity to tailor a unique academic profile suited to their specific interests and career ambitions. Students also have the option of doing minor concentrations in other faculties.

The **Bachelor of Social Work** (B.S.W.), an undergraduate program of professional studies, is offered through the School of Social Work. In addition to the standard three-year B.S.W. program, the School offers a two-year program for students who already have an undergraduate degree in another discipline.

The B.S.W. program is designed to provide an academic environment within which students will develop: integrated social work knowledge pertaining to its history, theoretical foundations, research base, practice modalities and policies that influence the delivery of health and social services; professional skills in the well-established methods of practice; an understanding of social policy in Canada; an awareness of the various dimensions of diversity and how they intersect in an increasingly heterogeneous society; and a sense of identity with the profession of social work.

The **B.A. & Sc.** is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by the Faculty of Arts and one offered by the Faculty of Science or a program offered jointly by both faculties.

The central objective of the B.A. & Sc. is to provide students with a broad education that includes in-depth study of disciplines in both faculties. The degree gives students a unique opportunity to achieve a diverse knowledge base, to gain competence in different methods of scholarship, to hone intellectual flexibility, and to integrate material across disciplines.

By choosing their programs appropriately, students who obtain a B.A. & Sc. are well prepared to pursue employment, or postgraduate studies, in a wide variety of fields. The varied intellectual skills they have developed render them extremely attractive candidates for potential employers, for professional programs in fields such as business, law, and medicine, and for graduate programs in traditional and interdisciplinary departments.

3.9.3 Minor Concentrations

Minor Concentrations

African Studies – [section 3.10.4.4: Bachelor of Arts \(B.A.\) - Minor Concentration African Studies \(18 credits\)](#)

Anthropology – [section 3.10.5.6: Bachelor of Arts \(B.A.\) - Minor Concentration Anthropology \(18 credits\)](#)

Art History – [section 3.10.6.5: Bachelor of Arts \(B.A.\) - Minor Concentration Art History \(18 credits\)](#)

Behavioural Science – [section 3.10.42.5: Bachelor of Arts \(B.A.\) - Minor Concentration Behavioural Science \(18 credits\)](#)

Canadian Ethnic and Racial Studies – [section 3.10.7.4: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Ethnic and Racial Studies \(18 credits\)](#)

Canadian Studies – [section 3.10.8.4: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Studies \(18 credits\)](#)

Catholic Studies – [section 3.10.9.4: Bachelor of Arts \(B.A.\) - Minor Concentration Catholic Studies \(18 credits\)](#)

Classics – [section 3.10.24.8: Bachelor of Arts \(B.A.\) - Minor Concentration Classics \(18 credits\)](#)

Communication Studies – [section 3.10.6.6: Bachelor of Arts \(B.A.\) - Minor Concentration Communication Studies \(18 credits\)](#)

Comparative Politics – [section 3.10.41.8: Bachelor of Arts \(B.A.\) - Minor Concentration Comparative Politics \(18 credits\)](#)

Computer Science – [section 3.10.12.3: Bachelor of Arts \(B.A.\) - Minor Concentration Computer Science \(18 credits\)](#)

Minor Concentrations

Computer Science, Supplementary – [section 3.10.12.4: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration in Computer Science \(18 credits\)](#)

East Asian Language and Literature – [section 3.10.13.4: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Language and Literature \(18 credits\)](#)

East Asian Cultural Studies – [section 3.10.13.5: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Cultural Studies \(18 credits\)](#)

East Asian Language, Supplementary – [section 3.10.13.6: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration East Asian Language \(18 credits\)](#)

Economics – [section 3.10.14.4: Bachelor of Arts \(B.A.\) - Minor Concentration Economics \(18 credits\)](#)

Educational Psychology – [section 3.10.16.3: Bachelor of Arts \(B.A.\) - Minor Concentration Educational Psychology \(18 credits\)](#)

Education for Arts Students – [section 3.10.15.3: Bachelor of Arts \(B.A.\) - Minor Concentration Education for Arts Students \(18 credits\)](#)

English - Literature – [section 3.10.17.6: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)

English - Drama and Theatre – [section 3.10.17.7: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)

English - Cultural Studies – [section 3.10.17.8: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)

Environment – see [Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.7.1: Bachelor of Arts \(B.A.\) - Minor Concentration Environment \(18 credits\)](#)

Finance for Non-Management Students – [section 3.10.34.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#)

Geographic Information Systems – [section 3.10.23.5: Bachelor of Arts \(B.A.\) - Minor Concentration Geographic Information Systems \(18 credits\)](#)

Geography – [section 3.10.23.4: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(18 credits\)](#)

Geography (Urban Systems) – [section 3.10.23.6: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(Urban Systems\) \(18 credits\)](#)

German Language – [section 3.10.30.8: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#)

German Literature – [section 3.10.30.9: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature \(18 credits\)](#)

German Literature and Culture in Translation – [section 3.10.30.10: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature and Culture in Translation \(18 credits\)](#)

Hispanic Languages – [section 3.10.30.16: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Languages \(18 credits\)](#)

Hispanic Literature and Culture – [section 3.10.30.17: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Literature and Culture \(18 credits\)](#)

History – [section 3.10.24.4: Bachelor of Arts \(B.A.\) - Minor Concentration History \(18 credits\)](#)

History and Philosophy of Science – [section 3.10.25.4: Bachelor of Arts \(B.A.\) - Minor Concentration History and Philosophy of Science \(18 credits\)](#)

International Development Studies – [section 3.10.27.4: Bachelor of Arts \(B.A.\) - Minor Concentration International Development Studies \(18 credits\)](#)

International Relations – [section 3.10.41.9: Bachelor of Arts \(B.A.\) - Minor Concentration International Relations \(18 credits\)](#)

Islamic Studies – [section 3.10.28.4: Bachelor of Arts \(B.A.\) - Minor Concentration Islamic Studies \(18 credits\)](#)

Italian Studies – [section 3.10.30.22: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#)

Jewish Studies – [section 3.10.29.5: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Studies \(18 credits\)](#)

Jewish Law – [section 3.10.29.4: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Law \(18 credits\)](#)

Langue et littérature françaises - Critique littéraire – [section 3.10.22.9: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Critique littéraire \(18 crédits\)](#)

Langue et littérature françaises - Études et pratiques littéraires – [section 3.10.22.7: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Études et pratiques littéraires \(18 crédits\)](#)

Langue et littérature françaises - Langue française – [section 3.10.22.5: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française \(18 crédits\)](#)

Langue et littérature françaises - Langue française et traduction – [section 3.10.22.6: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française et traduction \(18 crédits\)](#)

Langue et littérature françaises - Traduction – [section 3.10.22.8: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Traduction \(18 crédits\)](#)

Linguistics – [section 3.10.33.6: Bachelor of Arts \(B.A.\) - Minor Concentration Linguistics \(18 credits\)](#)

Management for Non-Management Students – [section 3.10.34.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#)

Marketing for Non-Management Students – [section 3.10.34.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)

Mathematics – [section 3.10.35.3: Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(18 credits\)](#)

Minor Concentrations

- Mathematics, Supplementary** – [section 3.10.35.4: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration in Mathematics \(18 credits\)](#)
- Middle East Studies** – [section 3.10.36.4: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Studies \(18 credits\)](#)
- Middle East Languages** – [section 3.10.36.5: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Languages \(18 credits\)](#)
- Music** – [section 3.10.37.6: Bachelor of Arts \(B.A.\) - Minor Concentration Music \(18 credits\)](#)
- Musical Applications of Technology** – see [Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > section 11.8.1.10: Minor Musical Applications of Technology \(18 credits\)](#)
- Musical Science and Technology** – see [Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > section 11.8.1.11: Minor Musical Science and Technology \(18 credits\)](#)
- North American Studies** – [section 3.10.38.4: Bachelor of Arts \(B.A.\) - Minor Concentration North American Studies \(18 credits\)](#)
- Operations Management for Non-Management Students** – [section 3.10.34.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)
- Philosophy** – [section 3.10.39.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy \(18 credits\)](#)
- Philosophy and Western Religions** – [section 3.10.40.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy and Western Religions \(18 credits\)](#)
- Political Science** – [section 3.10.41.6: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science \(18 credits\)](#)
- Political Science: Canada/Québec** – [section 3.10.41.7: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science: Canada/Québec \(18 credits\)](#)
- Political Economy** – [section 3.10.41.10: Bachelor of Arts \(B.A.\) - Minor Concentration Political Economy \(18 credits\)](#)
- Political Theory** – [section 3.10.41.11: Bachelor of Arts \(B.A.\) - Minor Concentration Political Theory \(18 credits\)](#)
- Politics, Law and Society** – [section 3.10.41.12: Bachelor of Arts \(B.A.\) - Minor Concentration Politics, Law and Society \(18 credits\)](#)
- Psychology** – [section 3.10.42.4: Bachelor of Arts \(B.A.\) - Minor Concentration Psychology \(18 credits\)](#)
- Quebec Studies** – [section 3.10.43.5: Bachelor of Arts \(B.A.\) - Minor Concentration Quebec Studies / La concentration Mineur en Études sur le Québec \(18 credits\)](#)
- Religion and Globalization** – [section 3.10.44.5: Bachelor of Arts \(B.A.\) - Minor Concentration Religion and Globalization \(18 credits\)](#)
- Russian** – [section 3.10.30.26: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 credits\)](#)
- Russian Culture** – [section 3.10.30.27: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 credits\)](#)
- Science for Arts Students** – [section 3.10.45.4: Bachelor of Arts \(B.A.\) - Minor Concentration Science for Arts Students \(18 credits\)](#)
- Scriptural Languages** – [section 3.10.44.6: Bachelor of Arts \(B.A.\) - Minor Concentration Scriptural Languages \(18 credits\)](#)
- Sexual Diversity Studies** – [section 3.10.46.4: Bachelor of Arts \(B.A.\) - Minor Concentration Sexual Diversity Studies \(18 credits\)](#)
- Social Studies of Medicine** – [section 3.10.47.4: Bachelor of Arts \(B.A.\) - Minor Concentration Social Studies of Medicine \(18 credits\)](#)
- Sociology** – [section 3.10.49.5: Bachelor of Arts \(B.A.\) - Minor Concentration Sociology \(18 credits\)](#)
- South Asia** – [section 3.10.41.13: Bachelor of Arts \(B.A.\) - Minor Concentration South Asia \(18 credits\)](#)
- Statistics** – [section 3.10.35.5: Bachelor of Arts \(B.A.\) - Minor Concentration Statistics \(18 credits\)](#)
- Women's Studies** – [section 3.10.50.4: Bachelor of Arts \(B.A.\) - Minor Concentration Women's Studies \(18 credits\)](#)
- World Cinemas** – [section 3.10.51.4: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 credits\)](#)
- World Religions** – [section 3.10.44.7: Bachelor of Arts \(B.A.\) - Minor Concentration World Religions \(18 credits\)](#)

3.9.4 Major Concentrations

Major Concentrations

- African Studies** – [section 3.10.4.5: Bachelor of Arts \(B.A.\) - Major Concentration African Studies \(36 credits\)](#)
- Anthropology** – [section 3.10.5.7: Bachelor of Arts \(B.A.\) - Major Concentration Anthropology \(36 credits\)](#)
- Art History** – [section 3.10.6.7: Bachelor of Arts \(B.A.\) - Major Concentration Art History \(36 credits\)](#)
- Canadian Studies** – [section 3.10.8.5: Bachelor of Arts \(B.A.\) - Major Concentration Canadian Studies \(36 credits\)](#)
- Classics** – [section 3.10.24.10: Bachelor of Arts \(B.A.\) - Major Concentration Classics \(36 credits\)](#)
- Computer Science** – [section 3.10.12.5: Bachelor of Arts \(B.A.\) - Major Concentration Computer Science \(36 credits\)](#)

Major Concentrations

- East Asian Studies** – [section 3.10.13.7: Bachelor of Arts \(B.A.\) - Major Concentration East Asian Studies \(36 credits\)](#)
- Economics** – [section 3.10.14.5: Bachelor of Arts \(B.A.\) - Major Concentration Economics \(36 credits\)](#)
- English – Literature** – [section 3.10.17.9: Bachelor of Arts \(B.A.\) - Major Concentration English - Literature \(36 credits\)](#)
- English – Drama and Theatre** – [section 3.10.17.10: Bachelor of Arts \(B.A.\) - Major Concentration English - Drama and Theatre \(36 credits\)](#)
- English – Cultural Studies** – [section 3.10.17.11: Bachelor of Arts \(B.A.\) - Major Concentration English - Cultural Studies \(36 credits\)](#)
- Geography** – [section 3.10.23.7: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(37 credits\)](#)
- Geography (Urban Systems)** – [section 3.10.23.8: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(Urban Systems\) \(36 credits\)](#)
- German Language and Literature** – [section 3.10.30.11: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Language and Literature \(36 credits\)](#)
- German Literature and Culture** – [section 3.10.30.12: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Literature and Culture \(36 credits\)](#)
- German Studies, Contemporary** – [section 3.10.30.13: Bachelor of Arts \(B.A.\) - Major Concentration Contemporary German Studies \(36 credits\)](#)
- Hispanic Languages** – [section 3.10.30.18: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Languages \(36 credits\)](#)
- Hispanic Literature and Culture** – [section 3.10.30.19: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Literature and Culture \(36 credits\)](#)
- History** – [section 3.10.24.5: Bachelor of Arts \(B.A.\) - Major Concentration History \(36 credits\)](#)
- International Development Studies** – [section 3.10.27.5: Bachelor of Arts \(B.A.\) - Major Concentration International Development Studies \(36 credits\)](#)
- Italian Studies** – [section 3.10.30.23: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)
- Jewish Studies** – [section 3.10.29.6: Bachelor of Arts \(B.A.\) - Major Concentration Jewish Studies \(36 credits\)](#)
- Langue et littérature françaises - Études et pratiques littéraires** – [section 3.10.22.12: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)
- Langue et littérature françaises - Traduction** – [section 3.10.22.13: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Traduction \(36 crédits\)](#)
- Latin-American Studies** – [section 3.10.31.5: Bachelor of Arts \(B.A.\) - Major Concentration Latin American Studies \(36 credits\)](#)
- Liberal Arts** – [section 3.10.32.3: Bachelor of Arts \(B.A.\) - Major Concentration Liberal Arts \(36 credits\)](#)
- Linguistics** – [section 3.10.33.7: Bachelor of Arts \(B.A.\) - Major Concentration Linguistics \(36 credits\)](#)
- Mathematics** – [section 3.10.35.6: Bachelor of Arts \(B.A.\) - Major Concentration Mathematics \(36 credits\)](#)
- Middle East Studies** – [section 3.10.36.6: Bachelor of Arts \(B.A.\) - Major Concentration Middle East Studies \(36 credits\)](#)
- Music** – [section 3.10.37.7: Bachelor of Arts \(B.A.\) - Major Concentration Music \(36 credits\)](#)
- North American Studies** – [section 3.10.38.5: Bachelor of Arts \(B.A.\) - Major Concentration North American Studies \(36 credits\)](#)
- Philosophy** – [section 3.10.39.5: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy \(36 credits\)](#)
- Philosophy and Western Religions** – [section 3.10.40.5: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy and Western Religions \(36 credits\)](#)
- Political Science** – [section 3.10.41.14: Bachelor of Arts \(B.A.\) - Major Concentration Political Science \(36 credits\)](#)
- Psychology** – [section 3.10.42.6: Bachelor of Arts \(B.A.\) - Major Concentration Psychology \(36 credits\)](#)
- Quebec Studies** – [section 3.10.43.6: Bachelor of Arts \(B.A.\) - Major Concentration Quebec Studies / La concentration Majeur en Études sur le Québec \(36 crédits\)](#)
- Russian** – [section 3.10.30.28: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)
- Scriptures and Interpretations** – [section 3.10.44.8: Bachelor of Arts \(B.A.\) - Major Concentration Scriptures and Interpretations \(36 credits\)](#)
- Sociology** – [section 3.10.49.6: Bachelor of Arts \(B.A.\) - Major Concentration Sociology \(36 credits\)](#)
- Software Engineering** – [section 3.10.12.6: Bachelor of Arts \(B.A.\) - Major Concentration Software Engineering \(36 credits\)](#)
- Women's Studies** – [section 3.10.50.5: Bachelor of Arts \(B.A.\) - Major Concentration Women's Studies \(36 credits\)](#)
- World Religions** – [section 3.10.44.9: Bachelor of Arts \(B.A.\) - Major Concentration World Religions \(36 credits\)](#)

3.9.5 Honours Programs

Honours Programs

- Anthropology** – [section 3.10.5.8: Bachelor of Arts \(B.A.\) - Honours Anthropology \(60 credits\)](#)
- Art History** – [section 3.10.6.8: Bachelor of Arts \(B.A.\) - Honours Art History \(60 credits\)](#)
- Canadian Studies** – [section 3.10.8.6: Bachelor of Arts \(B.A.\) - Honours Canadian Studies \(57 credits\)](#)
- Classics** – [section 3.10.24.11: Bachelor of Arts \(B.A.\) - Honours Classics \(60 credits\)](#)
- East Asian Studies** – [section 3.10.13.8: Bachelor of Arts \(B.A.\) - Honours East Asian Studies \(60 credits\)](#)
- Economics** – [section 3.10.14.6: Bachelor of Arts \(B.A.\) - Honours Economics \(42 credits\)](#)
- English (Literature)** – [section 3.10.17.12: Bachelor of Arts \(B.A.\) - Honours English - Literature \(60 credits\)](#)
- English (Drama and Theatre)** – [section 3.10.17.13: Bachelor of Arts \(B.A.\) - Honours English - Drama and Theatre \(60 credits\)](#)
- English (Cultural Studies)** – [section 3.10.17.14: Bachelor of Arts \(B.A.\) - Honours English - Cultural Studies \(60 credits\)](#)
- Environment** – see *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.12.1: Bachelor of Arts (B.A.) - Honours Environment (60 credits)*
- Geography** – [section 3.10.23.9: Bachelor of Arts \(B.A.\) - Honours Geography \(61 credits\)](#)
- Geography - Urban Systems** – [section 3.10.23.10: Bachelor of Arts \(B.A.\) - Honours Urban Systems \(60 credits\)](#)
- German Studies** – [section 3.10.30.14: Bachelor of Arts \(B.A.\) - Honours German Studies \(60 credits\)](#)
- Hispanic Studies** – [section 3.10.30.20: Bachelor of Arts \(B.A.\) - Honours Hispanic Studies \(60 credits\)](#)
- History** – [section 3.10.24.6: Bachelor of Arts \(B.A.\) - Honours History \(60 credits\)](#)
- International Development Studies** – [section 3.10.27.6: Bachelor of Arts \(B.A.\) - Honours International Development Studies \(57 credits\)](#)
- Italian Studies (Literature)** – [section 3.10.30.24: Bachelor of Arts \(B.A.\) - Honours Italian Studies \(54 credits\)](#)
- Jewish Studies** – [section 3.10.29.7: Bachelor of Arts \(B.A.\) - Honours Jewish Studies \(60 credits\)](#)
- Langue et littérature françaises - Études et pratiques littéraires** – [section 3.10.22.10: Baccalauréat ès Arts \(B.A.\) - Spécialisation en langue et littérature françaises - Études et pratiques littéraires \(54 crédits\)](#)
- Langue et littérature françaises - Traduction** – [section 3.10.22.11: Baccalauréat ès Arts \(B.A.\) - Spécialisation en langue et littérature françaises - Traduction \(54 crédits\)](#)
- Latin American and Caribbean Studies - Area** – [section 3.10.31.6: Bachelor of Arts \(B.A.\) - Honours Latin American and Caribbean Studies - Area \(60 credits\)](#)
- Latin American and Caribbean Studies - Thematic** – [section 3.10.31.7: Bachelor of Arts \(B.A.\) - Honours Latin American and Caribbean Studies - Thematic \(60 credits\)](#)
- Liberal Arts** – [section 3.10.32.4: Bachelor of Arts \(B.A.\) - Honours Liberal Arts \(60 credits\)](#)
- Linguistics** – [section 3.10.33.8: Bachelor of Arts \(B.A.\) - Honours Linguistics \(60 credits\)](#)
- Mathematics** – see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > section 13.13.21.13: Bachelor of Science (B.Sc.) - Honours Mathematics (60 credits)*
- Middle East Studies** – [section 3.10.36.7: Bachelor of Arts \(B.A.\) - Honours Middle East Studies \(60 credits\)](#)
- Philosophy** – [section 3.10.39.6: Bachelor of Arts \(B.A.\) - Honours Philosophy \(60 credits\)](#)
- Philosophy and Western Religions** – [section 3.10.40.6: Bachelor of Arts \(B.A.\) - Honours Philosophy and Western Religions \(60 credits\)](#)
- Political Science** – [section 3.10.41.15: Bachelor of Arts \(B.A.\) - Honours Political Science \(54 credits\)](#)
- Psychology** – [section 3.10.42.8: Bachelor of Arts \(B.A.\) - Honours Psychology \(60 credits\)](#)
- Religious Studies - Asian Religions** – [section 3.10.44.10: Bachelor of Arts \(B.A.\) - Honours Religious Studies - Asian Religions \(60 credits\)](#)
- Religious Studies - Western Religions** – [section 3.10.44.11: Bachelor of Arts \(B.A.\) - Honours Religious Studies - Western Religions \(60 credits\)](#)
- Russian** – [section 3.10.30.29: Bachelor of Arts \(B.A.\) - Honours Russian \(60 credits\)](#)
- Sociology** – [section 3.10.49.7: Bachelor of Arts \(B.A.\) - Honours Sociology \(51 credits\)](#)
- Women's Studies** – [section 3.10.50.6: Bachelor of Arts \(B.A.\) - Honours Women's Studies \(57 credits\)](#)

3.9.6 Joint Honours Programs

There are two types of Joint Honours programs available in the Faculty of Arts:

- fully-integrated programs such as Mathematics and Computer Science;
- programs that are created by combining the Joint Honours program components from two Arts disciplines. Students must register for both Joint Honours program components. Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students can choose Joint Honours program components from **any two** of the following disciplines:

Joint Honours Programs

Accounting (can only be combined with Economics) – [section 3.10.14.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics / Joint Honours Component Accounting \(60 credits\)](#)

African Studies – [section 3.10.4.6: Bachelor of Arts \(B.A.\) - Joint Honours African Studies Component \(36 credits\)](#)

Anthropology – [section 3.10.5.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Anthropology \(36 credits\)](#)

Art History – [section 3.10.6.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Art History \(36 credits\)](#)

Canadian Studies – [section 3.10.8.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Canadian Studies \(36 credits\)](#)

Classics – [section 3.10.24.12: Bachelor of Arts \(B.A.\) - Joint Honours Component Classics \(36 credits\)](#)

East Asian Studies – [section 3.10.13.9: Bachelor of Arts \(B.A.\) - Joint Honours Component East Asian Studies \(36 credits\)](#)

Economics – [section 3.10.14.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics \(30 credits\)](#)

English – Cultural Studies – [section 3.10.17.17: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Cultural Studies \(36 credits\)](#)

English – Drama and Theatre – [section 3.10.17.15: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Drama and Theatre \(36 credits\)](#)

English – Literature – [section 3.10.17.16: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Literature \(36 credits\)](#)

Environment – see *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.13.1: Bachelor of Arts (B.A.) - Joint Honours Component Environment (36 credits)*

Finance – [section 3.10.14.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics / Joint Honours Component Finance \(60 credits\)](#)

Geography – [section 3.10.23.11: Bachelor of Arts \(B.A.\) - Joint Honours Component Geography \(36 credits\)](#)

German Studies – [section 3.10.30.15: Bachelor of Arts \(B.A.\) - Joint Honours Component German Studies \(36 credits\)](#)

Hispanic Studies – [section 3.10.30.21: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)

History – [section 3.10.24.7: Bachelor of Arts \(B.A.\) - Joint Honours Component History \(36 credits\)](#)

International Development Studies – [section 3.10.27.7: Bachelor of Arts \(B.A.\) - Joint Honours Component International Development Studies \(36 credits\)](#)

Italian Studies – [section 3.10.30.25: Bachelor of Arts \(B.A.\) - Joint Honours Component Italian Studies \(36 credits\)](#)

Jewish Studies – [section 3.10.29.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Jewish Studies \(36 credits\)](#)

Langue et littérature françaises - Études et pratiques littéraires – [section 3.10.22.14: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation en langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

Langue et littérature françaises - Traduction – [section 3.10.22.15: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation en langue et littérature françaises - Traduction \(36 crédits\)](#)

Liberal Arts – [section 3.10.32.5: Bachelor of Arts \(B.A.\) - Joint Honours Liberal Arts \(36 credits\)](#)

Linguistics – [section 3.10.33.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Linguistics \(36 credits\)](#)

Mathematics – [section 3.10.35.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Mathematics \(36 credits\)](#)

Middle East Studies – [section 3.10.36.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Middle East Studies \(36 credits\)](#)

Philosophy – [section 3.10.39.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy \(36 credits\)](#)

Philosophy and Western Religions – [section 3.10.40.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy and Western Religions \(36 credits\)](#)

Political Science – [section 3.10.41.16: Bachelor of Arts \(B.A.\) - Joint Honours Component Political Science \(36 credits\)](#)

Psychology – [section 3.10.42.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Psychology \(36 credits\)](#)

Joint Honours Programs

Religious Studies – Asian Religions – [section 3.10.44.12: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Asian Religions \(36 credits\)](#)

Religious Studies – Western Religions – [section 3.10.44.13: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Western Religions \(36 credits\)](#)

Russian – [section 3.10.30.30: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)

Sociology – [section 3.10.49.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Sociology \(36 credits\)](#)

Women's Studies – [section 3.10.50.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Women's Studies \(36 credits\)](#)

3.9.7 Faculty Programs

Faculty Programs

Industrial Relations, [section 3.10.26.4: Bachelor of Arts \(B.A.\) - Faculty Program Industrial Relations \(54 credits\)](#)

Environment – see [Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > section 7.8: B.A. Faculty Program in Environment](#)

3.10 Academic Programs

Established in 1843, the Faculty of Arts is one of the oldest in Canada and remains the largest at McGill. With over 6,000 full-time students and over 280 full-time professors, the Faculty offers several hundred courses in many disciplines.

The Bachelor of Arts degree integrates the Humanities, Social Sciences, Languages, and a wide range of Interdisciplinary Studies into a coherent academic program. Students are also permitted great program flexibility. Students may concentrate on one Arts discipline while obtaining minor concentrations in other disciplines in Arts or in other faculties.

The Faculty also offers programs leading to the degree of Bachelor of Social Work (B.S.W.) and to a Diploma in Environment from the McGill School of Environment.

3.10.1 First-Year Seminars

A complete list of Arts First-Year Seminars is available on the Arts [OASIS](#) website. See [Class Schedule](#) for descriptions.

Please see [section 3.6.5.9: First-Year Seminar Courses](#) to determine if you qualify to register for an FYS course.

3.10.2 Faculty of Arts Internship Program

Most departments in the Faculty of Arts offer undergraduate students the opportunity to earn university credit while gaining experience in areas relevant to their fields of study. Open to U2 and U3 students, normally after completing 30 credits of a 90-credit program or 45 credits of a 96- to 120-credit program, normally with a minimum CGPA of 2.7, and permission of the departmental internship adviser. Arts internships involve a minimum of 150 hours of work with an approved host institution or organization. Students are required to submit a major topical paper that discusses an aspect of the internship from an academic perspective.

For more information about the Faculty of Arts Internship Program, see www.mcgill.ca/arts-internships.

3.10.3 Field Studies and Study Abroad

Study Abroad Options

There are four types of study abroad options available for undergraduate Faculty of Arts students:

- Bilateral Student Exchanges: www.mcgill.ca/oasis/away
- Studies at a Quebec University (IUT): www.mcgill.ca/oasis/away
- Field Study Courses and Field Study Minor: www.mcgill.ca/students/international/goabroad
- [Programs, Courses and University Regulations > Faculty of Science > Academic Programs > section 13.13.14.1: Field Studies - Minor Field Studies \(18 credits\)](#)

For more Field Study information, please contact Coordinator Martine Dolmière: martine.dolmiere@mcgill.ca, Faculty of Science, Dawson Hall, Room 408; or Adviser Wendy Brett: wendy.brett@mcgill.ca, Faculty of Science, Dawson Hall, Room 405.

- Independent Study Away: www.mcgill.ca/oasis/away

3.10.4 African Studies (AFRI)

3.10.4.1 Location

General Inquiries:
Institute for the Study of International Development
Peterson Hall, Room 126
3460 McTavish Street
Montreal, Quebec H3A 0E6

Telephone: 514-398-4804
Fax: 514-398-8432
Email: ids@mcgill.ca
Website: www.mcgill.ca/isid/undergraduate/afri/

Adviser:
Lisa Stanischewski

3.10.4.2 About African Studies

The African Studies program was established in 1969 and was the first of its kind in Canada. It offers interdisciplinary courses leading to a minor or major concentration for students seeking to acquire a deeper understanding of the African continent and its diverse peoples. Students will acquire an appreciation of the contributions of Africa to world culture and civilization, and an awareness of the continent's current struggle to achieve development.

3.10.4.3 African Studies (AFRI) Faculty

Program Chair

K. Fallon; B.A.(Calif.), M.A., Ph.D.(Ind.) – *Sociology*

Program Committee

G. Campbell; B.Soc.Sc., M.Soc.Sc.(Birm.), Ph.D.(Wales) (*Canada Research Chair*) – *History and Classical Studies*

C. Chapman; B.Sc., M.A., Ph.D.(Alta.) – *Anthropology/MSE*

E. Elbourne; B.A., M.A.(Tor.), D.Phil.(Oxf.) – *History and Classical Studies*

J. Galaty; M.A., Ph.D.(Chic.) – *Anthropology*

J. Jorgensen; B.A., M.A.(N. Carolina), Ph.D.(McG.) – *Desautels Faculty of Management*

K. Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.) – *Political Science*

M. Popescu; B.A., M.A.(Bucharest), M.A.(Windsor), Ph.D.(Penn.) – *English*

J. Soske; M.A.(Berk.), Ph.D.(Tor.) – *History and Classical Studies*

J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.) – *Geography*

3.10.4.4 Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

3 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa
ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy

GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960
HIST 413	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

Political Science

* Note: Course is counted only when African materials are taught.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

3.10.4.5 Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa
ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960
HIST 413	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

Political Science

* Note: Course is counted only when African materials are taught.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

3.10.4.6 Bachelor of Arts (B.A.) - Joint Honours African Studies Component (36 credits)

The Joint Honours program in African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable). Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations a minimum CGPA of 3.00 in general.

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (9 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 480*	(3)	Honours Thesis
AFRI 598	(3)	Research Seminar in African Studies

* Honours Thesis course must be taken for the AFRI Joint Honours component. Students must meet the specific requirements regarding Thesis credits of their second program in addition to the AFRI 480 Honours Thesis.

Complementary Courses (27 credits)

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

18 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa
ANTH 355	(3)	Theories of Culture and Society
ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa
ANTH 451	(3)	Research in Society and Development in Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416*	(3)	Africa South of the Sahara
GEOG 423*	(3)	Dilemmas of Development
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 493*	(3)	Health and Environment in Africa

* Note: Normally offered as field courses (in African Studies Field Semester)

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 382	(3)	History of South Africa
HIST 413	(3)	Independent Research
HIST 444	(3)	British Colonies: Africa and Asia
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 590	(3)	Topics: The British Empire

Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

Political Science

* Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Political Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Political Science students.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development

SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

3.10.4.7 African Studies (AFRI) Related Programs and Study Semesters

3.10.4.7.1 Africa Field Study Semester

See *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.3: Africa Field Study Semester](#) for details of the 15-credit interdisciplinary AFSS.

3.10.5 Anthropology (ANTH)

3.10.5.1 Location

Stephen Leacock Building, Room 718
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-4300

Fax: 514-398-7476

Website: www.mcgill.ca/anthropology

3.10.5.2 About Anthropology

The Honours program and Major concentration in Anthropology emphasize the similarity and diversity of human behaviour, understanding of social and cultural systems, and the processes of socio-cultural change from human origins to the present day. Within Anthropology, the Department concentrates on the fields of Archaeology and Socio-Cultural Anthropology.

Our programs serve as a useful background for those who are planning a career in law, medicine, foreign service, community organization, public administration, journalism, and teaching and research in social sciences and humanities. The Multi-track Major and Minor concentrations provide students with a solid grounding in anthropology as a whole, or in selected topical or sub-disciplinary areas, while allowing students to follow programs in other departments that suit their needs and interests. The Honours program provides a greater focus on Anthropology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students should have a CGPA of at least 3.30 to register in an Honours or Joint Honours program after their first year, and maintain it to graduate with an Honours degree. Graduation with a First Class Honours or Joint Honours degree requires a CGPA of 3.50 or better.

3.10.5.3 Core Courses

Core courses in Anthropology (350 level) provide students with essential knowledge of method and theory. They are more intensive than other 300-level courses, and **are restricted to Anthropology program students in U2 standing or above.**

3.10.5.4 Anthropology Minor Concentrations

The Minor concentration in Anthropology consists of 18 credits (six 3-credit courses) in the discipline and is designed to complement students' study in related disciplines or in interdisciplinary programs. The degree may enhance the employment profile of graduating students wishing to work in social services, in multicultural or multiethnic settings, in international development, aboriginal history, museum work, or in educational or media related professions.

Students should register in the Minor concentration prior to their second year of study at McGill. No credits taken in a minor may overlap with another degree program. The Minor concentration may be expanded into the single Anthropology Major concentration.

The **Minor Concentration in Anthropological Archaeology** and the **Minor Concentration in Socio-Cultural Anthropology** were retired at the end of 2004. Students enrolled in either one at that time should consult with a departmental adviser.

3.10.5.5 Anthropology (ANTH) Faculty

Chair

Ronald W. Niezen

Professors

Colin Chapman; B.Sc., M.A., Ph.D.(Alta.) (*joint appt. with McGill School of Environment*)

Ronald W. Niezen; B.A.(Br. Col.), M.Phil., Ph.D.(Camb.)

Professors

Jérôme Rousseau; B.Sc., M.A.(Montr.), Ph.D.(Camb.)

Philip Carl Salzman; B.A.(Antioch), M.A., Ph.D.(Chic.)

Allan Young; B.A.(Penn.), M.A.(Wash.), Ph.D.(Penn.) (*joint appt. with Social Studies of Medicine*)

Associate Professors

Michael S. Bisson; B.A., Ph.D.(Calif.)

André Costopoulos; B.A.(McG.), M.A.(Montr.), Ph.D.(Oulu)

Nicole C. Couture; B.A.(Trent), M.A., Ph.D.(Chic.)

John G. Galaty; B.A.(Trin. Coll., Hartford), M.A., Ph.D.(Chic.)

Sandra T. Hyde; B.A.(Calif.-Santa Cruz), M.P.H.(Hawaii Pac.), Ph.D.(Calif., Berk.)

Setrag Manoukian; B.A.(Venice), M.A., Ph.D.(Mich.) (*joint appt. with Islamic Studies*)

Kristin Norget; B.A.(Vic., BC), M.Phil., D.Phil.(Cant.)

James M. Savelle; B.Sc., M.Sc.(Ott.), M.A.(Ark.), Ph.D.(Alta.)

Colin H. Scott; B.A.(Regina), M.A., Ph.D.(McG.)

Ismael Vaccaro; B.A.(Barcelona), M.A.(E.H.E.S.S. Paris), M.A., Ph.D.(Wash.) (*joint appt. with McGill School of Environment*)

Assistant Professors

Gwen Bennett; B.A.(N'Western), M.A., Ph.D.(Calif.-LA) (*joint appt. with East Asian Studies*)

Eduardo O. Kohn; B.A.(Oberlin), M.A., Ph.D.(Wisc.-Madison)

Katherine Lemons; M.A., Ph.D.(Calif., Berk.)

Lisa Stevenson; B.A.(N. Carolina), Ph.D.(Calif., Berk.)

Associate Member

Tobias Rees; M.A.(Eberhard Karls-Universitat Tubingen), Diploma in Neuropharmacology(Inst. Pasteur, Paris, France), Ph.D.(Calif., Berk.)

Adjunct Members

Nadia Ferrara; B.A.(C'dia), M.A.(Vermont College), M.Sc.(McG.), Ph.D.(Montr.)

Vinh-Kim Nguyen; B.Sc.(McG.), M.D.(Montr.), M.A., Ph.D.(McG.)

Deborah Sick; Ph.D.(McG.)

3.10.5.6 Bachelor of Arts (B.A.) - Minor Concentration Anthropology (18 credits)

The Minor Concentration Anthropology permits students to explore the development and diversity of human beings and human society and culture through courses in human evolution, prehistoric archaeology, and socio-cultural anthropology. Students may include courses in all of these fields, or may focus on one or two.

This program may be expanded to the Major Concentration Anthropology.

Complementary Courses (18 credits)**200 Level**

3-9 credits selected from the following list:

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film

ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

Areas

3 credits from either one of the following area groups:

Ethnography

ANTH 304	(3)	Chinese Culture in Ethnography and Film
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 416	(3)	Environment/Development: Africa
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

Archaeology

ANTH 305	(3)	Arctic Prehistory
ANTH 307	(3)	Andean Prehistory
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 330	(3)	Traditional Whaling Societies
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa

6-12 credits from any 300-, 400-, or 500-level Anthropology courses.

3.10.5.7 Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)

The Major concentration is especially appropriate for students who aim to take courses across several sub-disciplinary or topical concentrations, and for whom specialization is premature. There are no prerequisites for admission to the Major Concentration Anthropology. Students are encouraged to take a course in quantitative methods (listed under the Honours program), but this course cannot count as part of this concentration.

Complementary Courses (36 credits)**200 Level**

6 credits selected from 200-level courses in Anthropology.

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

Core (350 Level)

6 credits, from the following Core courses (350 level) :

(Note: These are restricted to students in any Anthropology program with U2 standing or above.)

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

Areas

6 credits selected from Area courses:

Ethnography

ANTH 304	(3)	Chinese Culture in Ethnography and Film
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 416	(3)	Environment/Development: Africa
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples

ANTH 500	(3)	Chinese Diversity and Diaspora

Archaeology

ANTH 305	(3)	Arctic Prehistory
ANTH 307	(3)	Andean Prehistory
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 330	(3)	Traditional Whaling Societies
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa

400 Level

6 credits, two 400-level Anthropology courses.

Undergraduate Level

12 credits of additional undergraduate-level Anthropology courses of which no more than 6 credits may be at the 200 level.

3.10.5.8 Bachelor of Arts (B.A.) - Honours Anthropology (60 credits)

Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Complementary (60 credits)

Honours students select their courses as specified below. Students may take a maximum of 9 credits at the 300 level or higher offered by other departments if they are directly related to their focus of study within Anthropology and are approved by their departmental program adviser.

200/300 Level

A maximum of 36 credits of 200- and 300-level courses (of which a maximum of 21 credits may be at the 200 level) selected from:

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 300	(3)	Comparative Anthropology
ANTH 301	(3)	Nomadic Pastoralists
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 303	(3)	Ethnographies of Post-socialism
ANTH 305	(3)	Arctic Prehistory

ANTH 306	(3)	Native Peoples' History in Canada
ANTH 308	(3)	Political Anthropology 01
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 311	(3)	Primate Behaviour and Ecology
ANTH 312	(3)	Zooarchaeology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 320	(3)	Social Evolution
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 339	(3)	Ecological Anthropology
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 344	(3)	Quantitative Approaches to Anthropology
ANTH 345	(3)	Prehistory of Africa
ANTH 380	(3)	Special Topic 1
ANTH 381	(3)	Special Topic 2
ANTH 382	(3)	Special Topic 3
ANTH 383	(3)	Special Topic 4

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

400/500 Level

A minimum of 9 credits of 400- or 500-level courses selected from:

ANTH 402	(3)	Topics in Ethnography 1
ANTH 403	(3)	Current Issues in Archaeology
ANTH 405	(3)	Topics in Ethnography 2
ANTH 407	(3)	Anthropology of the Body

ANTH 412	(3)	Topics: Anthropological Theory
ANTH 413	(3)	Gender in Archaeology
ANTH 416	(3)	Environment/Development: Africa
ANTH 419	(3)	Archaeology of Hunter-Gatherers
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 440	(3)	Cognitive Anthropology
ANTH 443	(3)	Medical Anthropological Theory
ANTH 461	(3)	Research Techniques
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 511	(3)	Computational Approaches to Prehistory
ANTH 540	(3)	Topics in Anthropological Theory
ANTH 551	(3)	Advanced Topics: Archaeological Research
ANTH 555	(3)	Advanced Topics in Ethnology
ANTH 575	(3)	Concepts of Race

Honours Thesis

6 credits of honours thesis courses selected from:

ANTH 490	(6)	Honours Thesis 1
ANTH 491	(6)	Honours Thesis 2
ANTH 492	(6)	Honours Thesis
ANTH 492D1	(3)	Honours Thesis
ANTH 492D2	(3)	Honours Thesis
ANTH 492N1	(3)	Honours Thesis
ANTH 492N2	(3)	Honours Thesis

3.10.5.9 Bachelor of Arts (B.A.) - Joint Honours Component Anthropology (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students interested in Joint Honours should consult an adviser in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the Joint Honours components.

The Joint Honours thesis topic should be arranged by consultation with an adviser in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Complementary (36 credits)

Joint Honours students select their courses as specified below.

200 Level

A maximum of 12 credits of 200-level courses selected from:

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

300 Level

A minimum of 6 credits of 300-level courses selected from:

ANTH 300	(3)	Comparative Anthropology
ANTH 301	(3)	Nomadic Pastoralists
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 303	(3)	Ethnographies of Post-socialism
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 308	(3)	Political Anthropology 01
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 311	(3)	Primate Behaviour and Ecology
ANTH 312	(3)	Zooarchaeology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 320	(3)	Social Evolution
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 339	(3)	Ecological Anthropology
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State

ANTH 344	(3)	Quantitative Approaches to Anthropology
ANTH 345	(3)	Prehistory of Africa
ANTH 380	(3)	Special Topic 1
ANTH 381	(3)	Special Topic 2
ANTH 382	(3)	Special Topic 3
ANTH 383	(3)	Special Topic 4

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

400/500 Level

A minimum of 6 credits of 400- or 500-level courses selected from:

ANTH 402	(3)	Topics in Ethnography 1
ANTH 403	(3)	Current Issues in Archaeology
ANTH 405	(3)	Topics in Ethnography 2
ANTH 407	(3)	Anthropology of the Body
ANTH 412	(3)	Topics: Anthropological Theory
ANTH 413	(3)	Gender in Archaeology
ANTH 416	(3)	Environment/Development: Africa
ANTH 419	(3)	Archaeology of Hunter-Gatherers
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 440	(3)	Cognitive Anthropology
ANTH 443	(3)	Medical Anthropological Theory
ANTH 461	(3)	Research Techniques
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 511	(3)	Computational Approaches to Prehistory
ANTH 540	(3)	Topics in Anthropological Theory
ANTH 551	(3)	Advanced Topics: Archaeological Research
ANTH 555	(3)	Advanced Topics in Ethnology

ANTH 575 (3) Concepts of Race

Joint Honours Project

The Joint Honours thesis or project topic should be determined in consultation with advisers from both the student's Joint Honours components. Normally, the project is 6 credits of coursework with 3 credits applying to each Joint Honours component. The 3-credit Anthropology course is selected from:

ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10

3.10.5.10 Anthropology (ANTH) Related Programs and Study Semesters

3.10.5.10.1 Africa Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester; see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > section 8.3: Africa Field Study Semester*.

3.10.6 Art History and Communication Studies (ARTH and COMS)

3.10.6.1 Location

Arts Building, W-225 (West Wing, top floor)
853 Sherbrooke Street West
Montreal, Quebec H3A 0G5

Telephone: 514-398-1828

Fax: 514-398-7247

Website: www.mcgill.ca/ahcs

3.10.6.2 About Art History and Communication Studies

In the field of Art History, the Department offers comprehensive programs of courses and seminars on the history of the visual arts, material culture, and architecture from antiquity to the present, focusing primarily on Europe and North America. The works of art and architecture are discussed within their cultural, political, historical, religious, philosophical, and social context.

Major and minor concentrations, and honours, joint honours, and graduate programs are available in Art History. For the most up-to-date information on Department requirements and detailed course descriptions, please visit our Department's website or consult an appropriate undergraduate adviser through the Departmental Office, Arts Building, Room W-225, 514-398-1828.

The Department offers a minor concentration in the field of Communication Studies, as well as an M.A. and a Ph.D. program at the graduate level as described in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Graduate* (available at www.mcgill.ca/study).

3.10.6.3 Orientation Session for New Students

All new students entering the Art History and Communication Studies undergraduate programs are required to attend an information session prior to registration. The orientation date and location for 2013 are TBA.

At the meeting, the Academic Adviser will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses. Afterward, students may meet individually with an adviser regarding registration. Students may sign up for advising appointments after the orientation session.

3.10.6.4 Art History and Communication Studies (ARTH and COMS) Faculty

Chair

Angela Vanhaelen

Director of Graduate Programs in Art History

TBA

Director of Graduate Programs in Communication Studies

TBA

Director of Undergraduate Programs in Art History

TBA

Director of Undergraduate Programs in Communication Studies

TBA

Emeritus Professors

John M. Fossey; B.A.(Birm.), Des L.(Lyon II), F.S.A., R.P.A., F.R.S.C.

George Szanto; B.A.(Dart.), Ph.D.(Harv.)

Professors

Amelia Jones; B.A.(Harv.), M.A.(Penn.), Ph.D.(Calif.)

Marc Raboy; B.Sc., M.A., Ph.D.(McG.)

Christine Ross; M.A.(C'dia), Ph.D.(Paris I)

Will Straw; B.A.(Car.), M.A., Ph.D.(McG.)

Associate Professors

Darin Barney; B.A., M.A.(S. Fraser), Ph.D.(Tor.)

Jennifer Burman; B.A.(C'dia), M.A., Ph.D.(York)

Charmaine Nelson; B.F.A., M.A.(C'dia), Ph.D.(Manc.)

Carrie Rentschler; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)

Jonathan Sterne; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)

Angela Vanhaelen; B.A.(W. Ont.), M.A., Ph.D.(Br. Col.)

Assistant Professors

Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)

Chriscinda Henry; B.A.(Colo.), M.A.(Col.), Ph.D.(Chic.)

Cecily Hilsdale; B.F.A.(C'dia), M.A., Ph.D.(Chic.)

Mary Hunter; B.A.(Qu.), M.A., Ph.D.(Lond.)

Matthew C. Hunter; B.A.(Reed), M.A., Ph.D.(Chic.)

Becky Lentz; B.A.(Arkansas), M.A.(Southern Ill.), M.A.(NYU Tisch School)

Jeffrey Moser; B.A.(Calif., Berk.), M.A.(Taiwan), Ph.D.(Harv.)

Adjunct Professors

Cornelius Borck; M.A., M.D.(Free Univ., Berlin), Ph.D.(Lond.)

Johanne Lamoureux; B.A., M.A.(Montr.), Ph.D.(E.H.E.S.S., Paris)

Charles Levin; B.A., M.A.(McG.), Ph.D.(C'dia)

Bronwen Wilson; B.A., M.A.(Br. Col.), Ph.D.(N'western)

3.10.6.5 Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)

This program may be expanded to the Major Concentration Art History.

Required Course (3 credits)

ARTH 305 (3) Methods in Art History

Complementary Courses (15 credits)

Students select their complementary courses as follows:

3 credits in Art History at the 200 level.

12 credits in Art History at the 300 level or above, selected in consultation with the Departmental Adviser.

Note: Courses in studio practice cannot be counted towards the Minor concentration.

3.10.6.6 Bachelor of Arts (B.A.) - Minor Concentration Communication Studies (18 credits)

The Minor Concentration Communication Studies provides undergraduate students with a critical understanding of the role that communications media and communication technologies play in a society. It offers students intellectually challenging and innovative instruction in key traditions of Communications and Media Studies and new theoretical and methodological practices being developed in the field. The courses included in the program focus on issues of the relationship between communication, democracy and urban life, the social life of communication technologies, the historical development and transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

COMS 210	(3)	Introduction to Communication Studies

Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

COMS 200	(3)	History of Communication
COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2
COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication
COMS 425	(3)	Urban Culture & Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	History and Theory of Media
COMS 491	(3)	Media, Communication & Culture
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

3.10.6.7 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)**Required Course (3 credits)**

ARTH 305 (3) Methods in Art History

Complementary Courses (33 credits)

Students select their complementary courses as follows:

A maximum of 12 credits may be at the 200 level.

A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

The complementary courses must be selected from at least six of the eight Art History course fields.

Note: Courses in studio practice cannot be counted toward the Major concentration.

I. Theories and Methods

ARTH 310	(3)	Postcolonialism
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History

II. Ancient to Medieval

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 314	(3)	The Medieval City
ARTH 340	(3)	The Gothic Cathedral
ARTH 357	(3)	Early Chinese Art
ARTH 425	(3)	Arts of Medieval Spain

III. 1400 - 1700 (Early Modern)

ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 435	(3)	Early Modern Visual Culture
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04

IV. 1700 - 1945

ARTH 205	(3)	Introduction to Modern Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 323	(3)	Realism and Impressionism
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

V. Contemporary Art (1945 to Present)

ARTH 202	(3)	Introduction to Contemporary Art
ARTH 336	(3)	Art Now
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 356	(3)	Modern & Contemporary Chinese Art
ARTH 440	(3)	The Body and Visual Culture

VI. Sites of Visual Culture

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 325	(3)	Visual Culture Renaissance Venice

VII. Medium and Media

ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 360	(3)	Studies in the Photographic
ARTH 457	(3)	Brushwork in Chinese Painting

VIII. Selected Topics

ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 447	(3)	Independent Research Course
ARTH 490	(3)	Museum Internship

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.6.8 Bachelor of Arts (B.A.) - Honours Art History (60 credits)

Students are encouraged to apply for this program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.30 for admission into the program and the awarding of Honours.

In addition to the completion of the Honours requirements, students must complete at least a minor concentration in an academic unit other than the one in which the Honours requirements are satisfied. (For students completing a second degree in the Faculty of Arts, this regulation is waived.)

Required Courses (9 credits)

ARTH 305	(3)	Methods in Art History
ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (51 credits)

Students select their complementary courses as follows:

A maximum of 15 credits may be at the 200 level.

A minimum of 6 credits must be at the 400 level or above.

45 credits should be selected from at least six of the eight Art History course fields.

6 credits should be taken in a language other than English or in courses in one or two related disciplines selected with the written approval of the academic adviser.

I. Theories and Methods

ARTH 310	(3)	Postcolonialism
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History

II. Ancient to Medieval

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 314	(3)	The Medieval City
ARTH 340	(3)	The Gothic Cathedral
ARTH 357	(3)	Early Chinese Art
ARTH 425	(3)	Arts of Medieval Spain

III. 1400 - 1700 (Early Modern)

ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 435	(3)	Early Modern Visual Culture
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04

IV. 1700 - 1945

ARTH 205	(3)	Introduction to Modern Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 323	(3)	Realism and Impressionism
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII

ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

V. Contemporary Art (1945 to Present)

ARTH 202	(3)	Introduction to Contemporary Art
ARTH 336	(3)	Art Now
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 356	(3)	Modern & Contemporary Chinese Art
ARTH 440	(3)	The Body and Visual Culture

VI. Sites of Visual Culture

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 325	(3)	Visual Culture Renaissance Venice

VII. Medium and Media

ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 360	(3)	Studies in the Photographic
ARTH 457	(3)	Brushwork in Chinese Painting

VIII. Selected Topics

ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 447	(3)	Independent Research Course
ARTH 490	(3)	Museum Internship

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.6.9 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.30 for admission into the program and the awarding of Honours.

Required Courses (9 credits)

ARTH 305	(3)	Methods in Art History
ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (27 credits)

Students select their complementary courses as follows:

A maximum of 9 credits may be at the 200 level.

A minimum of 3 credits must be at the 400 level or above.

27 credits should be selected from at least six of the eight Art History course fields.

I. Theories and Methods

ARTH 310	(3)	Postcolonialism
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History

II. Ancient to Medieval

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 314	(3)	The Medieval City
ARTH 340	(3)	The Gothic Cathedral
ARTH 357	(3)	Early Chinese Art
ARTH 425	(3)	Arts of Medieval Spain

III. 1400 - 1700 (Early Modern)

ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 435	(3)	Early Modern Visual Culture
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04

IV. 1700 - 1945

ARTH 205	(3)	Introduction to Modern Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 323	(3)	Realism and Impressionism
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution

ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

V. Contemporary Art (1945 to Present)

ARTH 202	(3)	Introduction to Contemporary Art
ARTH 336	(3)	Art Now
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 356	(3)	Modern & Contemporary Chinese Art
ARTH 440	(3)	The Body and Visual Culture

VI. Sites of Visual Culture

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 325	(3)	Visual Culture Renaissance Venice

VII. Medium and Media

ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 360	(3)	Studies in the Photographic
ARTH 457	(3)	Brushwork in Chinese Painting

VIII. Selected Topics

ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 447	(3)	Independent Research Course
ARTH 490	(3)	Museum Internship

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.7 Canadian Ethnic and Racial Studies

3.10.7.1 Location

Department of Sociology
Stephen Leacock Building, Room 714
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-6853

Email: morton.weinfeld@mcgill.ca

3.10.7.2 About Canadian Ethnic and Racial Studies

The Minor Concentration in Canadian Ethnic and Racial Studies is an interdisciplinary program administered by the Faculty of Arts. It is affiliated with the McGill Institute for the Study of Canada. The concentration can be taken in conjunction with any primary program in Arts or Science. It offers to undergraduate students a structured framework in which to appreciate the range of social scientific approaches to the study of ethnic diversity in Canada.

The terms “ethnic” and “racial” are used in a very broad sense, to include the full spectrum of ethnic, cultural, religious, aboriginal, linguistic, and racial groups in Canada.

The disciplines featured in the program are Sociology, Anthropology, Geography, History, and Political Science. **In special cases, courses taken from other Arts departments, and other units at McGill, may be considered (e.g., Social Work, Education), with the consent of the Chair. The same is true of new relevant courses not yet listed in the program requirements.**

Apart from the intrinsic interest and importance of the subject, the concentration may be of practical use. Students pursuing further graduate and professional training or employment in a variety of areas will find familiarity with issues relating to cultural diversity to be an asset. These include the fields of health, social services, education, law, law enforcement, human resources and personnel; occupations in government agencies, in ethnocultural and other non-governmental organizations; and graduate work in all the social sciences.

The Canadian Ethnic and Racial Studies concentration will also sponsor programs of interest for the McGill community during the course of the year. Students interested in registering in this program should contact the Chair.

3.10.7.3 Canadian Ethnic and Racial Studies Faculty

Chair

Morton Weinfeld; B.A.(McG.), Ed.M., Ph.D.(Harv.) (*Sociology*)

Advisory Committee

G. Burgos; B.A.(SUNY, Albany), M.A., Ph.D.(Ind.) (*Sociology*)

Ian H. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.) (*Religious Studies*)

S. T. Saideman; B.A.(Oberlin), M.A., Ph.D.(Calif.-San Diego) (*Political Science*)

J. Torczyner; B.H.L.(Yeshiva), M.S.W., D.S.W.(Calif.) (*Social Work*)

3.10.7.4 Bachelor of Arts (B.A.) - Minor Concentration Canadian Ethnic and Racial Studies (18 credits)

Required Courses (9 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

Note: Of the 18 credits, selected with due regard to Faculty guidelines and course prerequisites, at least 9 must be above the 200 level.

Complementary Courses (9 credits)

9 credits, at least 6 of which must be at the 300 level or higher, selected from two of the following departmental lists:

Anthropology

ANTH 202	(3)	Socio-Cultural Anthropology

ANTH 306	(3)	Native Peoples' History in Canada
ANTH 320	(3)	Social Evolution
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 575	(3)	Concepts of Race

Canadian Studies

CANS 410	(3)	Canadian Studies Seminar 10

Geography

GEOG 301	(3)	Geography of Nunavut
GEOG 331	(3)	Urban Social Geography
GEOG 424	(3)	Europe: Places and Peoples
GEOG 502	(3)	Geography of Northern Development

History

HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 371	(3)	American Civil Rights 1877-1940
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 471D1	(3)	Canadian Immigration History
HIST 471D2	(3)	Canadian Immigration History

Philosophy

PHIL 327	(3)	Philosophy of Race

Political Science

POLI 226	(3)	La vie politique québécoise
POLI 321	(3)	Issues: Canadian Public Policy
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Aboriginal Politics in Canada
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 431	(3)	Nations and States/Developed World
POLI 435	(3)	Identity and Inequality
POLI 478	(3)	The Canadian Constitution

Sociology

SOCI 234	(3)	Population and Society
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups

Social Work

SWRK 400	(3)	Policy and Practice for Refugees

3.10.8 Canadian Studies (CANS)

3.10.8.1 Location

McGill Institute for the Study of Canada
3463 Peel Street
Montreal, Quebec H3A 1W7

Telephone: 514-398-8346
Fax: 514-398-7336
Website: www.mcgill.ca/misc

3.10.8.2 About Canadian Studies

Canadian Studies provides students with a broad multidisciplinary view of the nature and development of Canada. Our programs—including Minor concentration, Major concentration, Honours, and Joint Honours—are designed to encourage bilingualism, interdisciplinarity, and critical engagement. Our graduates go on to careers in the arts, government, the media, education, law, business, social service, and the university.

Students interested in pursuing Canadian Studies at the graduate level should consider the Joint Honours or the Honours concentration with a Canadian Studies component.

3.10.8.3 Canadian Studies (CANS) Faculty

Director

William Straw; B.A.(Car.), M.A., Ph.D.(McG.) (*Art History and Communication Studies*)

Program Director

William Straw; B.A.(Car.), M.A., Ph.D.(McG.) (*Art History and Communication Studies*)

3.10.8.4 Bachelor of Arts (B.A.) - Minor Concentration Canadian Studies (18 credits)

The Minor program enables students to take courses about Canada outside the areas of their other major or minor concentrations.

This program may be expanded to the Major Concentration Canadian Studies.

Required Course (3 credits)

CANS 200	(3)	Introduction to the Study of Canada

Complementary Courses (15 credits)

15 credits selected as specified below.

NOTE: Students may not choose more than 3 credits in disciplines of their other major or minor concentrations.

200 Level

6 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

3 credits chosen from the complementary course list at the 300 level or higher. The courses chosen must have relevance to the program.

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535*	(3)	History of Architecture in Canada

* Limited enrolment: 2-3 spots for CANS students

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics

ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01

FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal

HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.8.5 Bachelor of Arts (B.A.) - Major Concentration Canadian Studies (36 credits)

Required Courses (6 credits)

CANS 200	(3)	Introduction to the Study of Canada
CANS 501	(3)	Interdisciplinarity & Canadian Studies

Normally students will complete CANS 200 and at least 6 credits of core courses in their U1 year, will complete all core courses and at least 3 credits of CANS courses by the end of their U2 year, and will complete CANS 501 in their U3 year.

Complementary Courses (30 credits)

30 credits selected as specified below.

Note: Students may not choose more than 9 credits in disciplines of their other major or minor concentrations.

200 Level

12 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6-12 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

6-12 credits chosen from courses in Canadian Studies offered by other departments from the list below with at least 6 credits at the 300 level or higher. The courses chosen must all have relevance to the program.

3 credits must be taken in the French language (including language courses). A maximum of 3 credits may be chosen from French as a Second Language (FRSL).

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535*	(3)	History of Architecture in Canada

* Limited enrolment: 2-3 spots for CANS students.

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français

FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French

HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.8.6 Bachelor of Arts (B.A.) - Honours Canadian Studies (57 credits)

Students planning to pursue an Honours program option are reminded that they must complete a minor concentration (18 credits) in another Arts discipline to graduate.

Students with a GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Honours program. Application deadlines are December 15 and May 15. Forms are available from the McGill Institute for the Study of Canada (MISC) Office.

Required Courses (12 credits)

CANS 200	(3)	Introduction to the Study of Canada
CANS 480	(3)	Honours Thesis 1
CANS 481	(3)	Honours Thesis 2
CANS 501	(3)	Interdisciplinarity & Canadian Studies

Complementary Courses (45 credits)

45 credits selected as specified below.

Note: Students may not choose more than 9 credits in disciplines of their other major or minor concentrations.

200 Level

12 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

12-15 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

18-21 credits chosen from courses in Canadian Studies offered by other departments from the list below with at least 6 credits at the 400 level or higher.

3 credits must be taken in the French language (including language courses). A maximum of 3 credits may be chosen from French as a Second Language (FRSL).

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535	(3)	History of Architecture in Canada

* Limited enrolment 2-3 spots for CANS students.

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature

ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience

HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 471D1	(3)	Canadian Immigration History
HIST 471D2	(3)	Canadian Immigration History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar
HIST 596D1	(3)	Seminar: Canadian Health History
HIST 596D2	(3)	Seminar: Canadian Health History

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy

POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.8.7 Bachelor of Arts (B.A.) - Joint Honours Component Canadian Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours components from any two Arts disciplines.

Students with a minimum program GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Joint Honours. Application deadlines are December 15 and May 15. Forms are available from the McGill Institute for the Study of Canada (MISC) Office.

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Required Courses (9 credits)

CANS 200	(3)	Introduction to the Study of Canada

CANS 492	(3)	Joint Honours Thesis
CANS 501	(3)	Interdisciplinarity & Canadian Studies

Complementary Courses (27 credits)

27 credits selected as specified below.

Note: Students may not choose more than 9 credits in disciplines of their other major or minor concentrations.

200 Level

12 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6-9 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

6-9 credits chosen from courses in Canadian Studies offered by other departments from the list below with at least 6 credits at the 400 level or higher.

3 credits must be taken in the French language (including language courses). A maximum of 3 credits may be chosen from French as a Second Language (FRSL).

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535	(3)	History of Architecture in Canada

* Limited enrolment 2-3 spots for CANS students.

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise

FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity

HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 471D1	(3)	Canadian Immigration History
HIST 471D2	(3)	Canadian Immigration History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar
HIST 596D1	(3)	Seminar: Canadian Health History
HIST 596D2	(3)	Seminar: Canadian Health History

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada

POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.9 Catholic Studies (CATH)

3.10.9.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557
Fax: 514-398-1748
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/catholicstudies

Adviser: Karin Bourgeois (*on leave*)
Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.9.2 About Catholic Studies Program

The Catholic Studies program was established in 2001. The program aims to offer a systematic and comprehensive exploration of a major religious tradition, with a special focus on its interaction with society and culture.

3.10.9.3 Catholic Studies (CATH) Faculty

Program Committee Chair

Daniel Cere; B.A., M.A.(McG.), Ph.D.(C'dia) (*Faculty of Religious Studies*)

Program Committee

D. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.) (*Faculty of Religious Studies*)

T. Kirby; B.A.(KCNS), M.A., D.Phil.(Oxf.) (*Faculty of Religious Studies*)

P. Kirkpatrick; B.A.(McG.), M.Th.(Lond.), D.Phil.(Oxf.), D.D.(Montr. Dio. Coll.) (*Faculty of Religious Studies*)

F. Sabetti; B.A.(McM.), Ph.D.(Ind.) (*Political Science*)

3.10.9.4 Bachelor of Arts (B.A.) - Minor Concentration Catholic Studies (18 credits)

The Minor Concentration in Catholic Studies seeks to enrich the intellectual experience and academic options available to students, to broaden the course offerings across the disciplines, and to complement the visibility given to other programs such as Jewish Studies, Islamic Studies, and North American Studies. Core and complementary courses provide students an opportunity to deepen their understanding of Catholicism in an increasingly pluralistic world. The program offers a systematic and critical exploration of the diverse ways in which the Catholic tradition informs culture, institutions, and identity.

Required Course (3 credits)

CATH 200	(3)	Introduction to Catholicism

Complementary Courses (15 credits)

15 credits selected with the following specifications:

9 credits from Catholic Studies courses with the subject code CATH

3 credits from Group I: Catholicism and the Arts course lists

3 credits from Group II: Catholic Social and Intellectual Traditions course lists

Catholic Studies (CATH)

9 credits chosen from the list of Catholic Studies courses below.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Moral Culture
CATH 320	(3)	Scripture and Catholicism
CATH 325	(3)	The Religious Sense
CATH 340	(3)	Catholic Social Thought
CATH 370	(3)	Topics in Catholic Studies
CATH 460	(3)	Catholic Studies Seminar

Group I: Catholicism and the Arts

3 credits in Catholicism and the Arts selected from the lists below.

Art History and Communication Studies

ARTH 340	(3)	The Gothic Cathedral

Education

EDER 209	(3)	Search for Authenticity
EDER 394	(3)	Philosophy of God

English

ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 424	(3)	Irish Literature

French Language and Literature

FREN 252	(3)	Littérature québécoise
FREN 329	(3)	Civilisation québécoise
FREN 455	(3)	La littérature médiévale 1

Italian Studies

ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 355	(3)	Dante and the Middle Ages
ITAL 410	(3)	Italian Modernism

Religious Studies

RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 377	(3)	Religious Controversies

Group II: Catholic Social and Intellectual Traditions

3 credits in Catholic Social and Intellectual Traditions selected from the lists below.

East Asian Studies

EAST 385	(3)	Society and Community in Korea

Education

EDER 394	(3)	Philosophy of God
EDER 395	(3)	Moral Values and Human Action
EDER 494	(3)	Ethics in Practice

History

HIST 319	(3)	The Scientific Revolution
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 336	(3)	France, 1789 to 1914
HIST 357	(3)	Religion and Canadian Society in Historical Perspective

HIST 360	(3)	Latin America since 1825
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 405	(3)	European Cultural History 1

Philosophy

PHIL 334	(3)	Ethical Theory
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 474	(3)	Phenomenology

Political Science

POLI 226	(3)	La vie politique québécoise
POLI 319	(3)	Politics of Latin America
POLI 321	(3)	Issues: Canadian Public Policy
POLI 414	(3)	Society and Politics in Italy

Religious Studies

RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 340	(3)	Religion and the Sciences
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

3.10.10 Classics (CLAS)

See [section 3.10.24: History and Classical Studies \(HIST & CLAS\)](#).

3.10.11 Cognitive Science

Students with an interest in cognition may want to consider the Minor in Cognitive Science. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.13.8: Cognitive Science](#).

3.10.12 Computer Science (COMP)

3.10.12.1 Location

McConnell Engineering Building, Room 318
3480 University Street
Montreal, Quebec H3A 0E9
Telephone: 514-398-7071
Fax: 514-398-3883

Undergraduate Student Affairs Office
Lorne Trotter Building, Room 2060
3630 University Street
Montreal, Quebec H3A 0C6
Telephone: 514-398-7071 ext. 00739
Fax: 514-398-4653

Email: ugrad-sec@cs.mcgill.ca

Website: www.cs.mcgill.ca

3.10.12.2 About Computer Science

For a list of teaching staff, an outline of the nature of computer science, and the opportunities for study in this discipline, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.13.9: Computer Science \(COMP\)](#). The School also offers a program in the Faculty of Engineering and a major concentration for the Bachelor of Arts and Science.

Students must have completed MATH 133, MATH 140, MATH 141 or equivalents in order to begin taking courses in computer science programs.



Note: At the time of registration in the penultimate year, students must declare their intent to receive the Minor concentration in Computer Science.

3.10.12.3 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

Notes for the list below:

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364, COMP 396, and COMP 400.

COMP 230	(3)	Logic and Computability
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

3.10.12.4 Bachelor of Arts (B.A.) - Supplementary Minor Concentration in Computer Science (18 credits)

This Supplementary Minor Concentration may be taken only by students registered in the Major Concentration Computer Science. There may be no overlap in credits taken for this Supplementary Minor Concentration and the Major Concentration Computer Science. Taken together, these constitute a program very close to the Major Computer Science offered by the Faculty of Science.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for the Multi-track System options.

Complementary Courses (18 credits)

18 credits selected from Computer Science (COMP) courses at the 300 level or above excluding COMP 364, COMP 396, COMP 400, and COMP 431.

Students may also select courses from the list below with a maximum of 3 credits of MATH courses.

ECSE 508	(3)	Multi-Agent Systems
MATH 223	(3)	Linear Algebra

MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2

3.10.12.5 Bachelor of Arts (B.A.) - Major Concentration Computer Science (36 credits)

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Required Courses (21 credits)

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Notes for the list below:

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and should replace it with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

Complementary Courses (15 credits)

15 credits selected as follows:

3-6 credits from:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2

At least 3 credits from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

At least 3 credits from:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development

The remaining credits are selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396, COMP 400).

3.10.12.6 Bachelor of Arts (B.A.) - Major Concentration Software Engineering (36 credits)

The Major Concentration Software Engineering is a 36-37 credit program that focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering". The program may be used to satisfy part of the requirements for a B.A. degree.

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Note: Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 421	(3)	Database Systems
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (6 credits)

6-7 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364, COMP 396, and COMP 431.

COMP 322	(1)	Introduction to C++
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development

3.10.12.7 Computer Science (COMP) Related Programs

3.10.12.7.1 Joint Honours in Mathematics and Computer Science

For more information, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > [section 13.13.21: Mathematics and Statistics \(MATH\)](#)*. Admission to the program is based on a strong performance in CEGEP-level mathematics courses. Students must consult an Honours adviser in both departments.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

3.10.13 East Asian Studies (EAST)

3.10.13.1 Location

3434 McTavish Street
Montreal, Quebec H3A 0E3

Telephone: 514-398-6742

Fax: 514-398-1882

Email: asian.studies@mcgill.ca

Website: www.mcgill.ca/eas

3.10.13.2 About East Asian Studies

Heirs to ancient cultures and traditions that are rich and complex, East Asian societies are among the most dynamic and rapidly developing in the world today and are having an increasing impact on the global scene, economically, politically, and culturally. The study of the languages and cultures of East Asia, whether at the Major or Minor concentration or Honours level, offers the student an intellectually-challenging and personally-stimulating educational experience. While offering a different perspective on the human condition, East Asian Studies provides excellent preparation for a future career in the professions, international business management, education, law, journalism and communications, in addition to the necessary training for advanced study at the graduate level.

For complementary courses in the East Asian field, refer to the Departmental listing and the list of courses offered by other departments and in other faculties.

3.10.13.3 East Asian Studies (EAST) Faculty

Chair

Robin D.S. Yates

Professors

Kenneth Dean; B.A.(Brown), M.A., Ph.D.(Stan.)

Grace S. Fong; B.A., M.A.(Tor.), Ph.D.(Br. Col.)

Thomas LaMarre; B.A.(G'town), M.A., Ph.D.(Chic.), D.Sc.(d'Aix-Marseille II)

Robin D.S. Yates; B.A., M.A.(Oxf.), M.A.(Calif.), Ph.D.(Harv.) (*joint appt. with History*)

Assistant Professors

Yuriko Furuhashi; B.A.(Int'l. Christian), M.A.(N. Mexico), Ph.D.(Brown)

Bennett Gwen; B.A.(N'western), M.A., Ph.D.(Calif.-LA) (*joint appt. with Anthropology*)

Adrienne Hurley; B.A.(Colo.), M.A.(Mich.), Ph.D.(Calif.)

Jeffrey Moser; B.A.(Calif.), M.A.(National Taiwan Univ.), Ph.D.(Harv.) (*joint appt. with Art History*)

Gavin Walker; B.A., M.A.(Penn.), Ph.D.(C'nell) (*joint appt. with History*)

Lecturers

Jennie Chang; B.A.(Taiwan), M.A.(Harv.)

Myung Hee Kim; B.A., M.A.(Montr.)

Yasuko Senoo; B.Ed.(Japan), M.A.(McG.)

Miwako Uesaka; B.Sc.(Kyoto), M.A.(McG.)

Bill Wang; B.A.(Heilongjiang), M.A.(Calg.)

Associate Members

Lara Braitstein (*Religious Studies*)

Christopher Green (*Economics*)

G. Victor Hori (*Religious Studies*)

Sandra Teresa Hyde (*Anthropology*)

Erik Kuhonta (*Political Science*)

John Kurien (*Economics*)

Catherine Lu (*Political Science*)

Lorenz Lüthi (*History and Classical Studies*)

Johanna Ransmeier (*History*)

Junko Shimoyama (*Linguistics*)

Sarah Turner (*Geography*)

Juan Wang (*Political Science*)

3.10.13.4 Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits, one of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation

EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2

East Asian Studies (EAST)

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 466	(3)	Feminism and Japan
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1

EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.13.5 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 214	(3)	Japanese Animation & New Media
EAST 215	(3)	Introduction to East Asian Art
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan

EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History

HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 445	(3)	Late Imperial China
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 581	(3)	The Art of War in China

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management

Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia

Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhist Philosophy

3.10.13.6 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

3.10.13.7 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

36 credits selected as specified below.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese

EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 214	(3)	Japanese Animation & New Media
EAST 215	(3)	Introduction to East Asian Art
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia

EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

Geography (GEOG)

GEOG 408	(3)	Geography of Development

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China

HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 445	(3)	Late Imperial China
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 581	(3)	The Art of War in China

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management

Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia

Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhist Philosophy

3.10.13.8 Bachelor of Arts (B.A.) - Honours East Asian Studies (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (6 credits)

Honours thesis:

EAST 498D1	(3)	Honours Thesis: East Asian Studies
EAST 498D2	(3)	Honours Thesis: East Asian Studies

East Asian Language (24 credits)

24 credits of an East Asian language selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Literature, Culture and Society (30 credits)

30 credits of courses in East Asian Literature, Culture and Society.

6 credits of introductory courses in East Asian Culture from:

EAST 211	(3)	Introduction: East Asian Culture: China

EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Studies (EAST)

24 credits chosen from the list below of which at least 6 credits must be at the 400 level or above. One 400-level course must be taken before commencing the thesis.

EAST 214	(3)	Japanese Animation & New Media
EAST 215	(3)	Introduction to East Asian Art
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2

EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

Geography (GEOG)

GEOG 408	(3)	Geography of Development

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 445	(3)	Late Imperial China
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History

HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 581	(3)	The Art of War in China

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management

Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia

Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhist Philosophy

3.10.13.9 Bachelor of Arts (B.A.) - Joint Honours Component East Asian Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

Required Course (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Complementary Courses (33 credits)

33 credits selected as specified below.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)

EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.14 Economics (ECON)

3.10.14.1 Location

Stephen Leacock Building, Room 443
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-3030

Fax: 514-398-4938

Email: undergraduate.economics@mcgill.ca

Website: www.mcgill.ca/economics

3.10.14.2 About Economics

For more up-to-date, detailed information about the Department and its programs, please visit our websites as follows:

www.mcgill.ca/economics/undergraduates/majorminor for information on the major and minor programs, and www.mcgill.ca/economics/undergraduates/honours for information on the honours programs.

U0 students interested in economics should take ECON 208 and ECON 209. These courses provide good preparation for the honours and major programs, although neither course is a prerequisite for either program. The first year of microeconomics courses for the Honours program (ECON 250D1/ECON 250D2) and for the Majors program (ECON 230D1/ECON 230D2) should not be taken in the U0 year.



Note: The Economics Honours program is offered to both B.A. and B.Com. students. All Honours students must meet with a Department Honours adviser in **each** year of their Honours program.

Please see the following website to access the document on credit for economics courses taken elsewhere: www.mcgill.ca/economics/undergraduates/courses. For information on Economics internships, see www.mcgill.ca/arts-internships/departments/economics.

3.10.14.3 Economics (ECON) Faculty

Chair

John W. Galbraith

Emeritus Professors

Antal Deutsch; B.Com.(Sir G. Wms.), Ph.D.(McG.)

George Grantham; B.A.(Antioch), Ph.D.(Yale)

Kari Levitt; B.Sc.(Lond.), M.A.(Tor.)

Professors

Robert B. Cairns; B.Sc.(Tor.), Ph.D.(MIT)

Russell Davidson; B.Sc., Ph.D.(Glas.), Ph.D.(Br. Col.) (*Canada Research Chair*)

Jean-Marie Dufour; B.Sc.(McG.), M.Sc.(Montr.), M.A.(C'dia.), M.A.(Chic.), Ph.D.(Chic.) (*William Dow Chair in Economics*)

John W. Galbraith; B.A.(Qu.), M.Phil., D.Phil.(Oxf.) (*James McGill Professor*)

Christopher Green; M.A.(Conn.), Ph.D.(Wisc.)

Jagdish Handa; B.Sc.(Lond.), Ph.D.(Johns Hop.)

Ngo Van Long; B.Ec.(LaT.), Ph.D.(ANU) (*James McGill Professor*)

Robin Thomas Naylor; B.A.(Tor.), M.Sc.(Lond.), Ph.D.(Cant.)

Professors

Victoria Zinde-Walsh; M.A.(Wat.), M.Sc., Ph.D.(Moscow St.)

Associate Professors

Francisco Alvarez-Cuadrado; B.Sc.(Pontifica Comillas), M.A., Ph.D.(Wash.)

Hassan Bencheikroun; Diplôme d'ingénieur d'état(École Mohamedia des Ingénieurs, Morocco), Ph.D.(Laval)

James Engle-Warnick; B.S.(Akron), M.B.A.(Carnegie), Ph.D.(Pitts.)

Franque Grimard; B.A.(York), Ph.D.(Princ.)

C. John Kurien; B.A.(Kerala), M.A., Ph.D.(Vanderbilt)

Fabian Lange; B.Sc.(LSE), Ph.D.(Chic.)

Sonia Laszlo; B.A.(Ott.), M.A.(W. Ont.), Ph.D.(Tor.)

Christopher T.S. Ragan; B.A.(Vic., BC), M.A.(Qu.), Ph.D.(MIT)

Thomas Velk; M.S., Ph.D.(Wisc.)

William Watson; B.A.(McG.), Ph.D.(Yale)

Licun Xue; B.Eng., M.Eng.(Tianjin), M.A., Ph.D.(McG.)

Assistant Professors

Daniel Barczyk; B.Com., M.A.(Tor.), Ph.D.(NYU)

Matthieu Chemin; M.Sc. Eng.(École Centrale de Paris), M.Sc., Ph.D.(LSE)

Rohan Dutta; B.A.(St. Stephen's College, Delhi U.), M.A.(Delhi), Ph.D.(Wash.)

Jian Li; B.A.(Tsinghua), M.A., Ph.D.(Calif., Berk.)

Markus Poschke; M.Sc.(Maastricht), M.A.(Institut d'Études Politiques, Paris), M.Res., Ph.D.(European University Institute, Italy)

Erin Strumpf; B.A.(Smith), Ph.D.(Harv.)

Lecturers

Paul Dickinson

Mayssun El-Attar Vilalta

Kenneth MacKenzie

Taweewan Sidthidet

3.10.14.4 Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)

The Minor Concentration Economics is offered in four streams:

Stream I - Expandable

Stream II - Non-expandable

Stream III - for Management students

Stream IV - Combinable, for students already registered in the Major Concentration Economics

In general, 200-level courses have no prerequisites, ECON 208 and ECON 209 (substitutable by the combination of MGCR 293 and ECON 295 or the more advanced course ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2) are prerequisites for 300-level courses, ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2 are prerequisites for 400-level courses.

Stream I - Required Courses (6 credits)

This stream is for students whose primary interest is in a field other than Economics, but who wish to keep the option of upgrading to the Major concentration in the future.

ECON 230D1	(3)	Microeconomic Theory

ECON 230D2	(3)	Microeconomic Theory

Stream I - Complementary Courses (12 credits)

12 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Stream II - Required Courses (6 credits)

Note: Stream II of the Minor Concentration Economics may not be expanded to the Major Concentration Economics.

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications

Stream II - Complementary Courses (12 credits)

12 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Stream III - Complementary Courses (18 credits)

Stream III is available only to Management students.

18 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Note: ECON 295 will not count as part of this Minor concentration.

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at:
<http://www.mcgill.ca/economics/undergraduates/courses/>.

Stream IV - Complementary Courses (18 credits)

Students who are registered in the Major Concentration Economics and a minor concentration in another unit may complete as a second minor concentration the Minor Concentration Economics. Please see the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for detailed information on the multi-track system options.

18 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 400- or 500-level courses and no more than 3 credits may be at the 200 level.

3.10.14.5 Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)

The Major Concentration Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department.

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any major adviser; consult the Departmental office for a list of advisers.

Students who are registering for the first time with the Department should attend the orientation meeting (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration Economics students entering University at the U1 year in September should directly proceed to ECON 230D1/ECON 230D2 without taking ECON 208 and ECON 209.

Students who wish to switch from the Major concentration to Honours Economics must complete all the requirements of the Honours program.

Required Courses (18 credits)

Please note that all students taking the Major Concentration Economics (whether in the B.A. or B.Com.) must take 6 credits of approved statistics courses. Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at:
<http://www.mcgill.ca/economics/undergraduates/courses/>.

Mathematics: Mastery of high school mathematics is required for all economics courses. For majors and minors in Economics, it is recommended, but not required, that students acquire mastery of elementary Calculus and matrix algebra in their undergraduate years. (See courses listed under the Honours program.)

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory

Complementary Courses (18 credits)

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

Prerequisites: In general, 200-level courses have no prerequisites; 300-level courses have ECON 230D1/ECON 230D2 (or the lower level courses ECON 208 and ECON 209, or the combination of MGCR 293 and ECON 295) as prerequisites; and 400-level courses have ECON 230D1/ECON 230D2 as a prerequisite.

3.10.14.6 Bachelor of Arts (B.A.) - Honours Economics (42 credits)

The Honours Economics program (B.A. and B.Com.) consists of 30 specified credits of Honours courses and a further 12 credits of approved Economics courses. Honours students are also required to complete prerequisite Math courses in basic Calculus and linear algebra.

All Honours students should consult the handout describing the Honours and Joint Honours programs available in the Economics Department Office, Leacock Building Rm. 443, and at: <http://www.mcgill.ca/economics/undergraduates/honours>.

Normally, to be awarded an Honours degree, a student must obtain a 3.00 program GPA in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are normally a 3.50 program GPA in the required and complementary credits in Economics, and a CGPA of 3.50.

Required Math Prerequisites

All Honours students must complete three Math prerequisites. A sequence of two Calculus courses with a grade of C or higher should be completed prior to entering the Honours program. Prior to their U2 year, students should complete MATH 133. These requirements can be met by having passed equivalent courses at CEGEP or elsewhere. Honours students are encouraged, but not required, to take MATH 222 Calculus 3.

* Note: Students without high school Calculus take MATH 139; those with high school Calculus take MATH 140.

MATH 133	(3)	Linear Algebra and Geometry
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

Students who have taken an equivalent statistics course prior to entering the program may be waived from the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 469 in addition to ECON 468.

Normally, ECON 250D1/ECON 250D2 is taken in the U1 year, ECON 352D1/ECON 352D2 in U2, and ECON 450D1/ ECON 450D2 in U3. ECON 257D1/ECON 257D2 can be taken in U1 or U2; and ECON 468 can be taken in U2 or U3.

ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Courses (15 credits)

Complementary courses are usually taken in U2 or U3.

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits of Economics courses at the 300, 400, or 500 level, approved by an Honours adviser. Normally at least 9 of the 12 will be at the 400 or 500 level. (Note: Honours students are not permitted to register for general Economics courses where an Honours course in the same field is offered.)

3.10.14.7 Bachelor of Arts (B.A.) - Joint Honours Component Economics (30 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

All Joint Honours students should consult the handout describing the Economics Honours and Joint Honours programs available in the Economics Department Office, Leacock Building Room 443, and at <http://www.mcgill.ca/economics/undergraduates/honours>.

According to Faculty of Arts regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Math Prerequisites

All Joint Honours students must complete three Math prerequisites. A sequence of two calculus courses with a grade of C or higher should be completed prior to entering the Joint Honours program. Prior to their U2 year, students should complete MATH 133. These requirements can be met by having passed equivalent courses at CEGEP or elsewhere. Joint Honours students are encouraged, but not required, to take MATH 222 Calculus 3.

* Note: Students without high school Calculus take MATH 139; those with high school Calculus take MATH 140.

MATH 133	(3)	Linear Algebra and Geometry
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Course (3 credits)

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

3.10.14.8 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Accounting (60 credits)

The B.A. Joint Honours Component Economics / Joint Honours Component Accounting program is offered with the Desautels Faculty of Management and is commonly referred to as the Joint Honours in Economics and Accounting.

Students in this Joint Honours program should see an Economics adviser and a Management adviser.

All Joint Honours students should consult the handout describing the Economics Honours and Joint Honours programs available in the Economics Department Office, 443 Leacock Building, and at <http://www.mcgill.ca/economics/undergraduates/honours>.

According to Faculty of Arts regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Math Prerequisites

All Joint Honours students must complete three Math prerequisites. A sequence of two calculus courses with a grade of C or higher should be completed prior to entering the Joint Honours program. Prior to their U2 year, students should complete MATH 133. These requirements can be met by having passed equivalent courses at CEGEP or elsewhere. Joint Honours students are encouraged, but not required, to take MATH 222 Calculus 3.

* Note: Students without high school calculus take MATH 139; those with high school calculus take MATH 140.

MATH 133	(3)	Linear Algebra and Geometry
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Joint Honours Component Economics Requirements

Questions about the requirements for the 30-credit Economics component of this Joint Honours program should be directed to the Honours program adviser in the Department of Economics.

Economics - Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website:
<http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

Economics - Complementary Courses (3 credits)

3 credits selected from the following Economics courses:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

Joint Honours Component Accounting Requirements

Questions about the requirements for the 30-credit Accounting component of this Joint Honours program should be directed to the Honours program adviser in the Desautels Faculty of Management.

Accounting - Required Courses (18 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 455	(3)	Development of Accounting Thought
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Finance 1

Accounting - Complementary Courses (12 credits)

12 credits of Accounting courses selected from:

ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

3.10.14.9 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Finance (60 credits)

The B.A. Joint Honours Component Economics and Joint Honours Component Finance program is offered with the Desautels Faculty of Management and is commonly referred to as the Joint Honours in Economics and Finance.

Students in this Joint Honours program should see an Economics adviser and a Management adviser.

All Joint Honours students should consult the handout describing the Economics Honours and Joint Honours programs available in the Economics Department Office, 443 Leacock Building, and at <http://www.mcgill.ca/economics/undergraduates/honours>.

According to Faculty of Arts regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Math Prerequisites

All Joint Honours students must complete three Math prerequisites. A sequence of two calculus courses with a grade of C or higher should be completed prior to entering the Joint Honours program. Prior to their U2 year, students should complete MATH 133. These requirements can be met by having passed equivalent courses at CEGEP or elsewhere. Joint Honours students are encouraged, but not required, to take MATH 222 Calculus 3.

* Note: Students without high school calculus take MATH 139; those with high school calculus take MATH 140.

MATH 133	(3)	Linear Algebra and Geometry
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Joint Honours Component Economics Requirements

Questions about the requirements for the 30-credit Economics component of this Joint Honours program should be directed to the Honours program adviser in the Department of Economics.

Economics - Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

Economics - Complementary Courses (3 credits)

3 credits selected from the following Economics courses:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

Joint Honours Component Finance Requirements

Questions about the requirements for the 30-credit Finance component of this Joint Honours program should be directed to the Honours program adviser in the Desautels Faculty of Management.

Finance - Required Courses (18 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 547	(3)	Advanced Finance Seminar
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Finance 1

Finance - Complementary Courses (12 credits)

12 credits of Finance courses selected from:

FINE 434	(3)	Topics in Finance 1
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541D1	(1.5)	Applied Investments
FINE 541D2	(1.5)	Applied Investments

3.10.14.10 Standing in Honours and Joint Honours Programs

Normally, to be awarded an Honours degree, a student must obtain a 3.00 program GPA in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are normally a 3.50 program GPA in the required and complementary credits in Economics, and a CGPA of 3.50. For additional requirements for the B.Com. Honours in Economics, Joint Honours in Economics and Finance, and Joint Honours in Economics and Accounting, consult the *Desautels Faculty of Management* section of this publication for their program grade and GPA requirements. In particular, these programs also require a minimum grade of B- in all Management courses.

3.10.14.11 Economics (ECON) Related Programs**3.10.14.11.1 Minors in Management**

Economics students can also do one of the four minors offered by the Desautels Faculty of Management for non-Management students. Refer to *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management* for more information about program requirements and applying.

Finance for Non-Management Students; see [section 3.10.34.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#).

Management for Non-Management Students; see [section 3.10.34.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#).

Marketing for Non-Management Students; see [section 3.10.34.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#).

Operations Management for Non-Management Students; see [section 3.10.34.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#).

3.10.15 Education for Arts Students

3.10.15.1 Location

Student Affairs Office
 Faculty of Education
 3700 McTavish Street
 Montreal, Quebec H3A 1Y2

Email: sao.education@mcgill.ca

Website: www.mcgill.ca/edu-sao/new/programs/minorseducation

3.10.15.2 About Education for Arts Students

This Minor concentration allows Arts students to develop and explore an interest in education. It will give students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed. degree.

Completion of the Minor concentration does not qualify a student for certification to teach in the province of Quebec. Students interested in a teaching career should consult *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Education > Undergraduate > [section 5.5: Overview of Faculty Programs](#)*.

3.10.15.3 Bachelor of Arts (B.A.) - Minor Concentration Education for Arts Students (18 credits)

This Minor concentration allows Arts students to develop and explore an interest in education. It will give students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed. degree.

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of this publication for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Students should consult the Faculty of Arts section on "Faculty Degree Requirements", and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

Required Course (3 credits)

EDPE 300	(3)	Educational Psychology

Complementary Courses (15 credits)

Group A

9 credits selected as follows:

3 credits, one of:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

3 credits, one of:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education

3 credits, one of:

EDEC 247	(3)	Policy Issues in Quebec Education
EDEM 220	(3)	Contemporary Issues in Education

Group B

6 credits to be chosen from the following list:

* Note: Either EDES 335 or EDES 353 may be taken but not both.

EDEC 262	(3)	Media, Technology and Education
EDES 335*	(3)	Teaching Secondary Science 1
EDES 353*	(3)	Teaching Secondary Mathematics 1
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students

3.10.16 Educational Psychology

3.10.16.1 Location

Program Director

Professor Susanne P. Lajoie
Department of Educational and Counselling Psychology
Faculty of Education
3700 McTavish Street, Room 614
Telephone: 514-398-4248

Program Coordinator

Mr. Dean Thomson
Department of Educational and Counselling Psychology
Faculty of Education
3700 McTavish Street, Room 614
Telephone: 514-398-4248

Fax: 514-398-6968

Website: www.mcgill.ca/edu-ecp

3.10.16.2 About the Educational Psychology

Educational Psychology encompasses: (a) the theoretical and applied study of learning, cognition, and instruction in a variety of educational settings across ages and domains; (b) instructional technology and computers as cognitive tools in learning; (c) cognitive and social processes in learning; (d) evaluation and enhancement of learning and teaching; (e) methods of fostering inclusive education; (f) relationships of phenomena related to teaching, learning, and assessment in human development; and (g) the impact of family and community on children's learning and development.

For further information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Education* > *Undergraduate* > [section 5.8: Department of Educational and Counselling Psychology](#).

3.10.16.3 Bachelor of Arts (B.A.) - Minor Concentration Educational Psychology (18 credits)

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of this publication for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Respecting Faculty of Arts Multi-track System regulations, students registering for the Major Concentration Psychology and the Minor Concentration Educational Psychology must complete an additional minor concentration in Arts in a unit other than Psychology.

Students should consult the Faculty of Arts sections on "Faculty Degree Requirements", "Program Requirements", and "Departmental Programs" for information on the "Multi-track System" and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

Required Course (3 credits)

This required course has a prerequisite of an introductory course in psychology taken at either CEGEP or university level (e.g., PSYC 100 or EDPE 300). Students who do not have this prerequisite prior to entry into the program may take either PSYC 100 or EDPE 300. EDPE 300 may count as one of the complementary courses for the Minor concentration.

EDPE 335 (3) Instructional Psychology

Complementary Courses (15 credits)

15 credits to be selected as follows:

3 credits to be taken near the end of program completion, one of:

Note: Students with a background in psychology should normally select EDPE 355. EDPE 355 has a prerequisite, either PSYC 231 or permission of the instructor.

EDPE 355	(3)	Cognition and Education
EDPE 555	(3)	Introduction to Learning Sciences

12 credits selected from the following list:

* Note: Students may not receive credit for both EDPE 208 and PSYC 304. EDPE 208 is not open to students registered in a major or minor concentration in Psychology.

EDPE 208*	(3)	Personality and Social Development
EDPE 304	(3)	Measurement and Evaluation
EDPE 355	(3)	Cognition and Education
EDPE 377	(3)	Adolescence and Education
EDPE 515	(3)	Gender Identity Development
EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Introduction to Learning Sciences
EDPI 309	(3)	Exceptional Students
EDPI 526	(3)	Talented and Gifted Students
EDPI 527	(3)	Creativity and its Cultivation
EDPI 543	(3)	Family, School and Community

3.10.17 English (ENGL)

3.10.17.1 Location

Arts Building, Room 155
853 Sherbrooke Street West
Montreal, Quebec H3A 0G5

Telephone: 514-398-6550

Fax: 514-398-8146

Website: www.mcgill.ca/english

3.10.17.2 About English

The Department of English offers a wide variety of courses covering three linked and overlapping areas: literature written in English; drama, including both courses in dramatic literature and courses that introduce the student to the basic elements of theatrical performance; and cultural studies, including analysis of a variety of visual and verbal media. These three areas are integrally related, and all students in English Department programs are invited to do work in all three, while concentrating in one of them.



Note: Students intending to apply for Honours or already accepted should consult an Honours adviser regarding their course selections throughout their program.

3.10.17.3 Department Handbook on the Web

For the most up-to-date information on Department requirements and detailed course descriptions, see the *English Department Handbook* at www.mcgill.ca/english.

3.10.17.4 Department of English Student Association (DESA)

DESA is the representative body for the students of the English Department at McGill. Any student taking one or more courses in the Department is automatically a member. For more information, please read the description on the Department's website.

3.10.17.5 English (ENGL) Faculty**Chair**

A. Hepburn

Emeritus Professors

M.D. Bristol; B.A.(Yale), Ph.D.(Princ.)

K. McSweeney; B.A., Ph.D.(Tor.)

P. Ohlin; Fil. Mag.(Stockholm), M.A., Ph.D.(N. Mexico)

M. Puhvel; B.A., M.A.(McG.), Ph.D.(Harv.)

J. Ripley; B.A., M.A.(New Br.), Ph.D.(Birm.)

D. Suvin; B.A., M.Sc., Ph.D.(Zagreb), F.R.S.C.

W.C. Wees; B.A.(N'western), M.A.(Roch.), Ph.D.(N'western)

D. Williams; B.A.(Boston), M.A., Ph.D.(Tor.)

Professors

K. Borris; B.A.(Vic., BC), Ph.D.(Edin.)

M.N. Cooke; B.A.(Qu.), M.A.(C'nell), M.A., Ph.D.(Tor.)

A. Hepburn; B.A., M.A.(W. Ont.), Ph.D.(Princ.)

M.A. Kilgour; B.A.(Tor.), Ph.D.(Yale) (*Molson Professor of English*)

R. Lecker; B.A., M.A., Ph.D.(York) (*Greenshields Professor of English*)

P. Sabor; B.A.(Camb.), M.A.(Qu.), Ph.D.(Lond.) (*Canada Research Chair in 18th Century Studies*)

M. Stenbaek; B.A.(Copen.), M.A., Ph.D.(Montr.)

B. Trehearne; B.A., M.A., Ph.D.(McG.)

P. Yachnin; B.A.(McG.), M.Litt.(Edin.), Ph.D.(Tor.) (*Tomlinson Chair in Shakespeare Studies*)

Associate Professors

D.A. Bray; B.A.(McG.), Ph.D.(Edin.)

S. Carney; B.A.(Manit.), M.A.(Alta.), Ph.D.(York)

T.W. Folkerth; B.A.(CSU Chico), M.A., Ph.D.(McG.)

J. Fumo; B.A.(Mass.), M.A., Ph.D.(Princ.)

P. Gibian; B.A.(Yale), M.A.(NYU), M.A., Ph.D.(Stan.)

Y. Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.)

T. Heise; B.A.(Flor. St.), M.A.(Calif., Davis), Ph.D.(NYU)

D.C. Hensley; B.A., M.A.(Trinity College, Cambridge), B.A., Ph.D.(Yale)

M. Hickman; B.A.(Brown), M.A., Ph.D.(Mich.)

E. Hurley; B.A.(McG.), A.M.(Brown), Ph.D.(CUNY)

B. Kaite; B.A.(C'dia), M.A.(McM.), Ph.D.(Car.)

T. Mole; B.A., M.A., Ph.D.(Brist.) (*William Dawson Scholar*)

Associate Professors

M. Morgan; B.A.(Harv.), Ph.D.(Stan.)
 P. Neilson; B.A.(Bishop's), M.F.A.(Calg.)
 D. Nystrom; B.A.(Wisc.), M.A.(Virg.), Ph.D.(Virg., Charlottesville)
 T. Ponech; B.A.(McG.), Ph.D.(N'western)
 M. Popescu; B.A., M.A.(Bucharest), Ph.D.(Windsor), Ph.D.(Penn.)
 D. Salter; B.A.(Br. Col.), M.A., Ph.D.(Tor.)
 E. Schantz; B.A.(Stan.), M.A., Ph.D.(USC)
 M.W. Selkirk; B.A.(Alta.), M.F.A.(Ill.)
 T. Sparks; B.A.(Bates College), M.A., Ph.D.(Wash.)

Assistant Professors

E. MacLaren; B.A.(Alta.), M.A.(W Ont.), Ph.D.(Tor.)
 A. Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.)
 F. Ritchie; B.A., M.A.(Durh.), Ph.D.(Lond.)
 A. Thain; B.A.(McG.), Ph.D.(Duke)
 M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.)
 K. Zien; B.A.(Col.), Ph.D.(N'western)

3.10.17.6 Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Author

3 credits on a Major Author:

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

Pre-1800

3 credits from a list of pre-1800 literature courses:

ENGL 215	(3)	Introduction to Shakespeare
ENGL 300	(3)	The Seventeenth Century
ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

ENGL 199	(3)	FYS: Literature and Democracy
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature

ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

3.10.17.7 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230	(3)	Introduction to Theatre Studies

Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

ENGL 407	(3)	The 20th Century
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Option's Offerings - Additional Courses

6 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 369	(3)	Creative Writing: Playwriting
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 434	(3)	Independent Theatre Project

Drama and Theatre - Courses of Interest - Other Departments

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in 2013-2014.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance
HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

3.10.17.8 Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 275	(3)	Introduction to Cultural Studies

Complementary Courses (15 credits)

15 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text
ENGL 497	(3)	Seminar in Cultural Studies

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1

ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

3.10.17.9 Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1

ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance:

Backgrounds of English Literature

ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 349	(3)	English Literature and Folklore 1
ENGL 452	(3)	Studies in Old English

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English

Renaissance

ENGL 215	(3)	Introduction to Shakespeare
ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2

18 Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 403	(3)	Studies in the 18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2
ENGL 405	(3)	Studies in 19th Century Literature 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2

19th Century American

ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

Modernist

ENGL 335	(3)	The 20th Century Novel 1
ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer

Post-modernist

ENGL 320	(3)	Postcolonial Literature
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 443	(3)	Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 323	(3)	20th Century American Poetry
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 443	(3)	Contemporary Women's Fiction

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories above and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count toward the Major Concentration in English - Literature.

ENGL 199	(3)	FYS: Literature and Democracy
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

3.10.17.10 Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)

The Drama and Theatre option tries to place its subject in as broad a social and philosophical context as possible. The Drama and Theatre program is not designed to provide professional theatre training. The aim is rather to encourage students to explore the subject as a liberal arts discipline.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

9 credits to be taken in the first two terms of the program

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 269	(3)	Introduction to Performance
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (27 credits)

27 credits selected as described below.

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theory or Criticism Courses

3 credits from the list of Theory or Criticism courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Theatre History Courses

3 credits from the list of Theatre History courses:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Option's Offerings - Additional Courses

12 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 369	(3)	Creative Writing: Playwriting
ENGL 375	(3)	Interpretation Dramatic Text
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 434	(3)	Independent Theatre Project

Drama and Theatre - Courses of Interest - Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser, approached by a student with strong academic grounds for including a third such course, may grant permission, to a maximum of 9 extra-departmental credits, and must so indicate in advance by signing the departmental program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in 2013-2014.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below, should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance
HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

3.10.17.11 Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Canadian Component

3 credits from a list of courses in Cultural Studies with a Canadian component:

ENGL 393	(3)	Canadian Cinema
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component.

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

9 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Major Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies

ENGL 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser who is approached by a student with strong academic grounds for including a third such course may grant permission (to a maximum of 9 extra-departmental credits) and must so indicate in advance by signing the departmental program audit sheet.

3.10.17.12 Bachelor of Arts (B.A.) - Honours English - Literature (60 credits)

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.50; students meeting the 3.50 minimum in English Department courses alone (although not in CGPA) may also apply and make a case for their acceptance. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 60 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1/ENGL 491D2), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 60 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Required Courses (18 credits)

ENGL 202, ENGL 203 and ENGL 311 are normally taken in the first two terms of the program. ENGL 360 is normally taken in the second year of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

Complementary Courses (42 credits)

42 credits selected as described below. At least 6 of the 42 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 409	(3)	Studies in a Canadian Author

ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

American Literature

3 credits from a list of American Literature courses:

ENGL 225	(3)	American Literature 1
ENGL 226	(3)	American Literature 2
ENGL 227	(3)	American Literature 3
ENGL 323	(3)	20th Century American Poetry
ENGL 324	(3)	20th Century American Prose
ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature
ENGL 423	(3)	Studies in 19th Century Literature
ENGL 525	(3)	American Literature

Shakespeare

3 credits from a list of courses on Shakespeare.

ENGL 315	(3)	Shakespeare
ENGL 416	(3)	Studies in Shakespeare
ENGL 516	(3)	Shakespeare

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance.

Backgrounds of English Literature

ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1

Old English

ENGL 342	(3)	Introduction to Old English

ENGL 349	(3)	English Literature and Folklore 1
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 215	(3)	Introduction to Shakespeare
ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 403	(3)	Studies in the 18th Century
ENGL 503	(3)	18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2
ENGL 405	(3)	Studies in 19th Century Literature 2
ENGL 504	(3)	19th Century

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2
ENGL 504	(3)	19th Century

19th Century American

ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary.

Early 20th Century

ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

Modernist

ENGL 335	(3)	The 20th Century Novel 1
ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 505	(3)	20th Century

Post-modernist

ENGL 320	(3)	Postcolonial Literature
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 443	(3)	Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 323	(3)	20th Century American Poetry
ENGL 333	(3)	Development of Canadian Poetry 2

ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 443	(3)	Contemporary Women's Fiction

Cultural Studies

3 credits selected from ENGL courses specific to Cultural Studies. Please consult the complementary course lists for Cultural Studies programs for course choices.

Drama and Theatre

3 credits selected from ENGL courses specific to Drama and Theatre. Please consult the complementary course lists for Drama and Theatre programs for course choices.

Department Offerings

9 credits from among other Department offerings (ENGL courses).

3.10.17.13 Bachelor of Arts (B.A.) - Honours English - Drama and Theatre (60 credits)

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.50; students meeting the 3.50 minimum in English Department courses alone (although not in CGPA) may also apply and make a case for their acceptance. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 60 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1/ENGL 491D2), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 60 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Required Courses (15 credits)

Note: ENGL 230, ENGL 269 and ENGL 355 should be taken in the first two terms of the program.

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 269	(3)	Introduction to Performance
ENGL 355	(3)	The Poetics of Performance
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

Complementary Courses (45 credits)

45 credits selected as described below. At least 6 of the 45 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the Program Adviser.

Shakespeare or Another Major Figure in Drama and Theatre Courses

3 credits from a list of courses on Shakespeare or, when available and with an instructor's signed permission on the student's Audit Sheet, another major figure in Drama and Theatre:

ENGL 315	(3)	Shakespeare

ENGL 416	(3)	Studies in Shakespeare
ENGL 516	(3)	Shakespeare

Drama and/or Theatre Courses with a Canadian Component

3 credits from a list of courses in Drama and/or Theatre with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theatre History Courses

3 credits from the list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900
ENGL 516	(3)	Shakespeare
ENGL 565	(3)	Drama Workshop
HIST 312	(3)	Hist of Consumption in Canada
HIST 315	(3)	Themes in World History

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 516	(3)	Shakespeare
ENGL 565	(3)	Drama Workshop

Theory Courses

3 credits from the list of courses in Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2

ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory Courses

3 credits from a list of courses with a theoretical component, from the option's offerings at the 400 level or above:

ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2
ENGL 467	(3)	Advanced Studies in Theatre History

Performance-Oriented Courses

9 credits from the list of Performance-Oriented courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Departmental Offerings in English Literature and/or Cultural Studies

6 credits chosen from the course lists for the English Literature and/or Cultural Studies programs. Please consult the complementary courses for the English Literature and Cultural Studies programs for course choices.

English Courses

12 credits in English selected in consultation with an academic adviser.

Drama and Theatre - Courses of Interest - Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser, approached by a student with strong academic grounds for including a third such course, may grant permission, to a maximum of 9 extra-departmental credits, and must so indicate in advance by signing the departmental program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit towards the student's Drama and Theatre program. This list applies only to these courses as they are offered in 2013-2014.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance

HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

3.10.17.14 Bachelor of Arts (B.A.) - Honours English - Cultural Studies (60 credits)

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second-program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.50; students meeting the 3.50 minimum in English Department courses alone (although not in CGPA) may also apply and make a case for their acceptance. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 60 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1/ENGL 491D2), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 60 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Required Courses (15 credits)

ENGL 275, ENGL 277, and ENGL 359 should be taken in the first two terms in the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

Complementary Courses (45 credits)

45 credits selected as described below. At least 6 of the 45 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

Canadian Component

3 credits from a list of courses with a Canadian component:

ENGL 393	(3)	Canadian Cinema
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text
ENGL 497	(3)	Seminar in Cultural Studies

Literature and/or Drama and Theory

12 credits in ENGL courses specific to English Literature and/or Drama and Theatre, of which at least 6 credits are at the 300 level or higher. Please consult the complementary course lists for the English Literature and Drama and Theatre programs for course choices.

Additional Cultural Studies

15 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Honours English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio

ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2
ENGL 585	(3)	Cultural Studies: Film
ENGL 586	(3)	Cultural Studies: Other Media
ENGL 587	(3)	Theoretical Approaches to Cultural Studies

3.10.17.15 Bachelor of Arts (B.A.) - Joint Honours Component English - Drama and Theatre (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (9 credits)

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 269	(3)	Introduction to Performance
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (27 credits)

27 credits selected as described below. In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Theory Courses

3 credits from a list of theory courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Dramatic Literature

3 credits in Dramatic Literature:

For a list of courses for the 2013-2014 academic year, please consult the Department of English web page <http://www.mcgill.ca/english/>.

History of the Theatre

3 credits in History of the Theatre:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900
ENGL 565	(3)	Drama Workshop
ENGL 566	(3)	Special Studies in Drama 1

Departmental Offerings

12 credits

3.10.17.16 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (6 credits)

ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism

Complementary Courses (30 credits)

30 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6-credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Pre-1800

9 credits from a list of Pre-1800 literature courses:

ENGL 300	(3)	The Seventeenth Century
ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance

ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English
ENGL 501	(3)	16th Century
ENGL 502	(3)	17th Century
ENGL 503	(3)	18th Century
ENGL 516	(3)	Shakespeare
ENGL 553	(3)	Old English Literature

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

500 Level

3 credits of English (ENGL) courses at the 500 level.

Department Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.17.17 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (9 credits)

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 276	(3)	Methods of Cultural Analysis
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema

Departmental Offerings

12 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.17.18 Admission Requirements to the Joint Honours Program – English Component

Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form. The application will take some time to prepare, and allowance for such preparation (at least several weeks) must be made in order to meet the application deadline. **Incomplete applications will not be considered.**

Acceptance into Joint Honours English may be conditional on particular revisions to the Program Course Proposal to be submitted with the application form. This proposal goes on file in the General Office with the other submissions. Only course choices that are appropriate, given the nature of the Joint Honours program proposed, including the Honours Essay if applicable, will be approved. In order to graduate with Joint Honours, all subsequent course substitutions in the initially approved Joint Honours English program must be endorsed by the Joint Honours Adviser when they are made (i.e., at the start of each term) and entered on the Program Course Proposal with the Adviser's initialled approval.

3.10.18 English as a Second Language (ESL)

As of Summer 2011, the English as a Second Language courses (formerly ESLN prefixes) have been offered through the McGill Writing Centre (www.mcgill.ca/mwc). These courses now have a new prefix: CESL. For a list of MWC courses that can be taken for credit in the Faculty of Arts, consult the Arts OASIS website (www.mcgill.ca/oasis).

3.10.19 English for Academic Purposes (EAPR)

As of Summer 2011, the English for Academic Purposes course (formerly an EAPR prefix) has been offered through the McGill Writing Centre (www.mcgill.ca/mwc). This course now has a new prefix: CEAP. For a list of MWC courses that can be taken for credit in the Faculty of Arts, consult the Arts OASIS website (www.mcgill.ca/oasis).

3.10.20 Environment

Arts students who are interested in studying the environment should refer to *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > [section 7.7.1: Bachelor of Arts \(B.A.\) - Minor Concentration Environment \(18 credits\)](#) and *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > [section 7.8: B.A. Faculty Program in Environment](#) for more information.**

3.10.21 French Language Centre (FLC)

3.10.21.1 Location

French Language Centre
688 Sherbrooke Street West, 2nd Floor
Montreal, Quebec H3A 3R1

Telephone: 514-398-4172
Fax: 514-398-5449
Website: www.mcgill.ca/flc

3.10.21.2 About French as a Second Language

Courses in French as a Second Language are open to students in any program who need to develop their oral and written skills in the French language either for use in their future professional career or as preparation for more advanced studies in French linguistics, literature, civilization, translation, or in Canadian studies.

Arts Freshman students enrolled in the "En français" option may select up to a maximum of 18 credits from FRSL courses.

3.10.21.3 Admission and Registration

A Placement Test is required before admission to any FRSL course, including Beginners' French. *All students should bring a photocopy of their transcript from high school or CEGEP. Departmental permission will be given after the student's level has been determined by a placement test.* Where students' levels in French make admission to this Department inappropriate, they will be directed to the *Département de langue et littérature françaises*.

No auditors are accepted.

Placement tests take place at the end of August **until places are filled**. For the schedule, location and most current information, check the FLC website at www.mcgill.ca/flc.

Students must bring a headset or earbuds – the kind used with iPods, MP3 players, etc. Only a limited number of students can be tested at a time and they will be served on a first come basis.

Registration is limited and Departmental permission is absolutely required.

As numbers are limited in all courses, students who meet the required standard for any given course are admitted on a first-come, first-served basis. Students must attend all classes during the first two weeks in order to keep their places.

The Department reserves the right to transfer a student to another course if the level is inappropriate. Any absence from class during the Course Change period may lead to losing one's place to another student.

3.10.21.4 French Language Centre (FLC) Faculty

Director

Loretta Hyrat

Lecturers

Loretta Hyrat; B.A., M.A.(McG.)

Denyse Laniel; B.A.(Montr.), M.A.(McG.), Cert. Ed.(C'dia)

Natallia Liakina; B.A.(Minsk Linguistic), M.A.(W. Ont.)

Elsa Michaël; B.A., M.A.(Ott.), M.A.(Rennes)

Suzanne Pellerin; B.A., M.A.(Laval), D.E.A.(Metz)

Jean-Yves Richard; B.A., M.A.(Laval)

Hélène Riel-Salvatore; B.A.(McG.), M.A.(Harv.)

3.10.22 French Language and Literature (FREN)

3.10.22.1 Coordonnées

Pavillon des Arts, bureau 265
853, rue Sherbrooke ouest
Montréal, Québec H3A 0G5

Téléphone : 514-398-6883

Télécopieur : 514-398-8557

Site web : <http://litterature.mcgill.ca>

3.10.22.2 Généralités : Langue et littérature françaises

Le Département de langue et littérature françaises offre un programme de cours qui couvre l'ensemble des littératures française et québécoise ainsi que d'autres aspects des études françaises : langue, traduction et création littéraire.

Le français est la seule langue de travail au Département. Tous les cours sont donnés en français. Les francophones constituent une proportion importante de notre clientèle, ce qui représente un avantage appréciable pour les étudiants qui ne sont pas de langue française, leur permettant de faire leurs études dans un milieu essentiellement français.

Pour ce qui est de la traduction, le programme offert à McGill a comme principale caractéristique de comporter un grand nombre de cours de littérature.

La plupart des cours peuvent être suivis par tout étudiant ayant les connaissances et les capacités voulues : le professeur jugera en dernier ressort. Il existe toutefois quelques restrictions.

1. L'admission aux cours pratiques de langue (Composition 1 et 2, Grammaire avancée, Traduction) est subordonnée à la réussite d'un test qui a pour but de déterminer le niveau de connaissance de l'étudiant et d'assurer que celui-ci sera dirigé vers un cours correspondant à ses besoins. Si la préparation de l'étudiant s'avère insuffisante pour lui permettre de suivre un cours au Département, un cours au Centre d'enseignement du français (French as a Second Language) lui sera conseillé.
2. L'admission aux programmes de Spécialisation en Traduction est subordonnée à la réussite d'un test.
3. Les étudiants extérieurs au Département peuvent s'inscrire à tous les cours offerts au Département sauf exceptions indiquées dans le libellé des cours.

3.10.22.3 Association générale des étudiants de langue et littérature françaises (AGELF)

Association regroupant les étudiants de 1er cycle (inscrits à au moins 6 crédits en français) qui a pour but de promouvoir les intérêts de tous ses membres.

3.10.22.4 French Language and Literature (FREN) Faculty**Emeritus Professors**

Marc Angenot; L.Phil. & Lett., Dr.Phil. & Lett.(Brussels), F.R.S.C. (*James McGill Professor*)

Giuseppe Di Stefano; D. ès L.(Turin), Dipl. École Pratiques Hautes Ét., Dr. 3e Cy.(Paris-Sorbonne)

Jean-Pierre Duquette; L. ès. L.(Montr.), Dr. 3e Cy.(Paris X)

Yvan Lamonde; B.A., M.A. Philo(Montr.) M.A., Ph.D.(Laval)

François Ricard; Dr. 3e Cy.(Aix-Marseille), M.A.(McG.)

Yvon Rivard; B.A.(Laval), Dr. 3e Cy.(Aix-Marseille), M.A.(McG.)

Professors

Michel Biron; M.A.(Montr.), Dr. Phil. & Lett.(Belgique)

Isabelle Daunais; M.A., Ph.D.(McG.) (*Canada Research Chair*)

Diane Desrosiers; M.A., Ph.D.(Montr.) (*James McGill Professor*)

Associate Professors

Arnaud Bernadet; M.A., D.E.A., Dr. 3e Cy.(Paris VIII)

Chantal Bouchard; M.A.(Montr.), Dr. 3e Cy.(Paris VII-Jussieu)

Pascal Brissette; M.A.(Montr.), Ph.D.(McG.)

Annick Chapdelaine; M.A., D.E.A., Dr. 3e Cy.(Paris VII-Jussieu)

Frédéric Charbonneau; M.A., Ph.D.(Montr.) (*William Dawson Scholar*)

Normand Doiron; M.A., Ph.D.(Montr.)

Jane Everett; M.A.(Car.), Ph.D.(McG.)

Gillian Lane-Mercier; M.A.(Montpellier), Ph.D.(McG.)

Catherine Leclerc; M.A.(UQAM), Ph.D.(C'dia)

Assistant Professors

Isabelle Arseneau; M.A., Ph.D.(W. Ont.), Ph.D.(Montr.)

Alain Farah; M.A.(UQAM), Ph.D.(UQAM/ENS Lyon)

3.10.22.5 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Langue française (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Aucune.

Cours complémentaires (18 crédits)

6 à 12 crédits choisis parmi les cours suivants du Centre d'enseignement du français :

FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 431	(6)	Français fonctionnel avancé
FRSL 445	(3)	Français fonctionnel, écrit 1

FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

6 à 12 crédits choisis parmi les cours du Département de langue et littérature françaises, soit :

FREN 201	(3)	Composition 1
FREN 203	(3)	Composition 2
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire avancée
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

3.10.22.6 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Langue française et traduction (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Aucune.

Cours complémentaires (18 crédits)

9 crédits choisis parmi les cours suivants :

FREN 201	(3)	Composition 1
FREN 203	(3)	Composition 2
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire avancée

9 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 341	(3)	Traduction et recherche 1
FREN 346	(3)	Traduction avancée
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.7 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Études et pratiques littéraires (18 crédits)

Concentration mineure convertible en Concentration majeure option Études et pratiques littéraires.

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours complémentaires - Introduction (3 crédits)

3 crédits choisis parmi les cours d'introduction :

FREN 222	(3)	Introduction aux études littéraires

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

Cours complémentaires - Orientation (15 crédits)

En outre, l'étudiant(e) doit choisir entre deux orientations (streams) soit :

« Études littéraires » ou « Pratiques littéraires ».

Orientation - Études littéraires

Les 15 crédits de cours complémentaires se répartiront comme suit :

12 crédits choisis parmi les cours du bloc « Études littéraires » (au moins 3 de ces 12 crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800)

3 crédits choisis parmi les cours du bloc « Pratiques littéraires »

Orientation - Pratiques littéraires

Les 15 crédits de cours complémentaires se répartiront comme suit :

12 crédits choisis dans au moins deux séries différentes du bloc « Pratiques littéraires »

3 crédits choisis parmi les cours du bloc « Études littéraires »

I. Bloc : « Études littéraires »

(a) Série Théorie littéraire

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »

(a) Série Traduction

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(b) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

3.10.22.8 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Traduction (18 crédits)

Concentration mineure convertible en Concentration majeure option Traduction.

Conditions d'admission : Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée au trimestre d'automne de U1.

Cours obligatoires (6 crédits)

FREN 244	(3)	Traduction générale
FREN 346	(3)	Traduction avancée

Cours complémentaires (12 crédits)

6 à 9 crédits choisis parmi :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 443	(3)	Traduction littéraire 2

3 à 6 crédits choisis parmi :

FREN 222	(3)	Introduction aux études littéraires
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.9 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Critique littéraire (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Connaissance suffisante du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours obligatoire (3 crédits)

FREN 222	(3)	Introduction aux études littéraires

Cours complémentaires (15 crédits)

12 crédits choisis parmi les cours suivants :

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 394	(3)	Théorie de la traduction 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

3 crédits choisis parmi les cours de niveau 300 ou 400 du bloc « Études littéraires »

Bloc : « Études littéraires »

(a) Série Théorie littéraire

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2

FREN 458	(3)	La littérature du 17 ^e siècle 2
FREN 459	(3)	La littérature du 18 ^e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19 ^e siècle 2
FREN 485	(3)	Littérature française contemporaine

3.10.22.10 Baccalauréat ès Arts (B.A.) - Spécialisation en langue et littérature françaises - Études et pratiques littéraires (54 crédits)

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2^e et 3^e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

En plus des cours du programme de Spécialisation, les étudiants doivent faire une Concentration mineure (18 crédits) dans un département autre que celui de leur programme de Spécialisation.

Cours obligatoires (24 crédits)

FREN 222*	(3)	Introduction aux études littéraires
FREN 245	(3)	Grammaire avancée
FREN 333	(3)	Thème de littérature d'Ancien Régime
FREN 444	(3)	Thème de littérature moderne
FREN 450	(3)	Thème de littérature québécoise
FREN 464D1**	(3)	Projet de recherche individuel
FREN 464D2**	(3)	Projet de recherche individuel
FREN 595	(3)	Séminaire avancé lettres françaises

* suivre en U1

** suivre en U3

Cours complémentaires (30 crédits)

I) Bloc : « Études littéraires »

18-24 crédits choisis parmi les cours du bloc « Études littéraires », comme suit :

12-18 crédits de la série Oeuvres et courants (au moins 3 de ces 18 crédits doivent porter sur la littérature avant 1800 et 3 autres crédits sur la littérature depuis 1800. Dans cette série, un maximum de 3 crédits de cours de niveau 200).

3-9 crédits de la série Théorie littéraire

3-9 crédits de la série Langue française

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1
FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Langue française

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1

FREN 336	(3)	Histoire de la langue française
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »

6-12 crédits choisis parmi les cours du bloc « Pratiques littéraires », dans au moins deux des trois séries : traduction, création, édition.

(a) Série Traduction

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(b) Série Création

FREN 240	(3)	Atelier d'écriture poétique

FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : Les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

En plus des exigences du programme de spécialisation, les étudiants doivent obtenir, dans une autre matière que celle de la spécialisation, soit 36 crédits constituant une concentration majeure, soit 18 crédits constituant une concentration mineure. S'ils optent pour la concentration mineure, les 18 crédits restants sont au choix. Ces 18 crédits peuvent être pris parmi les cours offerts au département (pour un total de 72 crédits en langue et littérature françaises) ou dans d'autres disciplines. Il est également possible de s'inscrire à deux mineures (2 x 18 crédits). Note: seul un certain nombre de cours libres peuvent être suivis à l'extérieur des Facultés des Arts et des Sciences.

3.10.22.11 Baccalauréat ès Arts (B.A.) - Spécialisation en langue et littérature françaises - Traduction (54 crédits)

Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test; en cas de note insuffisante lors de ce test, l'étudiant(e) s'inscrit au programme de Concentration majeure (option Traduction) et suivra le cours FREN 239 Stylistique comparée au trimestre d'automne de U1. L'étudiant(e) pourra demander de nouveau l'autorisation de s'inscrire au programme de Spécialisation (option Traduction) à la fin de U1; cette autorisation lui sera accordée si ses notes dans chacun de ses cours de programme suivis en U1 sont égales ou supérieures à 75 % (B+).

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2e et 3e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

En plus des cours du programme de Spécialisation, les étudiants doivent faire une concentration mineure (18 crédits) dans un département autre que celui de leur programme de Spécialisation.

Cours obligatoires (15 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 244	(3)	Traduction générale
FREN 245	(3)	Grammaire avancée
FREN 346	(3)	Traduction avancée
FREN 431	(3)	Traduction et révision

Cours complémentaires (39 crédits)

24 crédits répartis comme suit :

12 à 18 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 494	(3)	Traduction spécialisée

6 à 12 crédits parmi les cours suivants :

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

I. Bloc : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études littéraires » (au moins 3 de ces 12 crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800. Maximum de 3 crédits de cours de niveau 200).

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1
FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »

3 crédits choisis parmi les cours des séries Création et Édition du bloc « Pratiques littéraires »

(a) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(b) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

En plus des exigences du programme de spécialisation, les étudiants doivent obtenir, dans une autre matière que celle de la spécialisation, soit 36 crédits constituant une concentration majeure, soit 18 crédits constituant une concentration mineure. S'ils optent pour la concentration mineure, les 18 crédits restants sont au choix. Ces 18 crédits peuvent être pris parmi les cours offerts au département (pour un total de 72 crédits en langue et littérature françaises) ou dans d'autres disciplines. Il est également possible de s'inscrire à deux mineures (2 x 18 crédits). Note: seul un certain nombre de cours libres peuvent être suivis à l'extérieur des Facultés des Arts et des Sciences.

3.10.22.12 Baccalauréat ès Arts (B.A.) - Concentration majeure langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours obligatoires (15 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 245	(3)	Grammaire avancée
FREN 333	(3)	Thème de littérature d'Ancien Régime
FREN 444	(3)	Thème de littérature moderne
FREN 450	(3)	Thème de littérature québécoise

Cours complémentaires (21 crédits)

L'étudiant(e) doit choisir entre 2 orientations (streams) soit:

« Études littéraires » ou « Pratiques littéraires »

Orientation « Études littéraires »

Les 21 crédits de cours complémentaires se répartiront comme suit :

18 crédits choisis parmi les cours du bloc « Études littéraires », comme suit :

(12-18 crédits de la série Oeuvres et courants (au moins 3 de ces 18 crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800. Dans cette série, un maximum de 3 crédits de cours de niveau 200)

0-6 crédits de la série Théorie littéraire

0-6 crédits de la série Langue française

3 crédits choisis parmi les cours du bloc « Pratiques littéraires »

Orientation « Pratiques littéraires »

Les 21 crédits de cours complémentaires se répartiront comme suit :

15 crédits choisis parmi les cours du bloc « Pratiques littéraires », comme suit :

Au moins 3 crédits de la série Traduction

Au moins 3 crédits de la série Création

Au moins 3 crédits de la série Édition

6 crédits choisis parmi les cours du bloc Études littéraires (un maximum de 3 crédits de cours de niveau 200).

I. Bloc: « Études littéraires »

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1
FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

(c) Série Langue française

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

II. Bloc : « Pratiques littéraires »

(a) Série Traduction

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(b) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : Les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.13 Baccalauréat ès Arts (B.A.) - Concentration majeure langue et littérature françaises - Traduction (36 crédits)

Conditions d'admission : Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 (Stylistique comparée) au trimestre d'automne de U1.

Cours obligatoires (12 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 244	(3)	Traduction générale
FREN 245	(3)	Grammaire avancée
FREN 346	(3)	Traduction avancée

Cours complémentaires (24 crédits)

24 crédits, répartis comme suit:

12 à 15 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais

FREN 443	(3)	Traduction littéraire 2
FREN 494	(3)	Traduction spécialisée

3 à 6 crédits choisis parmi les cours suivants:

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

6 crédits choisis parmi les cours de la série Oeuvres et courants du bloc « Études littéraires » (dans cette série, un maximum de 3 crédits de cours de niveau 200).

I. Bloc « Études littéraires »

Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.14 Baccalauréat ès Arts (B.A.) - Double Spécialisation en langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2e et 3e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

Les étudiants qui souhaitent poursuivre leur études en spécialisation dans deux domaines distincts peuvent s'inscrire dans deux départements de la Faculté des Arts (consulter la section de ladite Faculté, sous les rubriques « Overview of Programs Offered » et « Joint Honours Programs »). Ces étudiants devraient rencontrer un conseiller dans chacun des deux départements concernés, pour établir leur choix de cours et formuler leur projet de recherche interdisciplinaire, le cas échéant.

Cours obligatoires (24 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 245	(3)	Grammaire avancée
FREN 333	(3)	Thème de littérature d'Ancien Régime
FREN 444	(3)	Thème de littérature moderne
FREN 450	(3)	Thème de littérature québécoise
FREN 464D1*	(3)	Projet de recherche individuel
FREN 464D2*	(3)	Projet de recherche individuel
FREN 595	(3)	Séminaire avancé lettres françaises

* suivre en U3

Cours complémentaires (12 crédits)

I. Bloc : « Études littéraires »

6 crédits choisis parmi les cours du bloc « Études littéraires », comme suit :

3-6 crédits de la série Oeuvres et courants (dans cette série, un maximum de 3 crédits de cours de niveau 200)

0-3 crédits de la série Théorie littéraire

0-3 crédits de la série Langue française

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1
FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2

FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

(c) Série Langue française

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

II. Bloc : « Pratiques littéraires »

6 crédits parmi les cours du bloc « Pratiques littéraires », comme suit:

0-6 crédits de la série Traduction

0-6 crédits de la série Création

0-6 crédits de la série Édition

(a) Série Traduction

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(c) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire

FREN 476 (3) Le livre

Note : Les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.15 Baccalauréat ès Arts (B.A.) - Double Spécialisation en langue et littérature françaises - Traduction (36 crédits)

Conditions d'admission: Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test; en cas de note insuffisante lors de ce test, l'étudiant(e) s'inscrira plutôt au programme de Concentration majeure (option Traduction) et suivra le cours FREN 239 (Stylistique comparée) au trimestre d'automne de U1. L'étudiant(e) pourra demander de nouveau l'autorisation de s'inscrire au programme de Spécialisation (option Traduction) à la fin de U1; cette autorisation lui sera accordée si ses notes dans chacun de ses cours de programme suivis en U1 sont égales ou supérieures à 75 % (B+).

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2e et 3e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

Les étudiants qui souhaitent poursuivre leur études en spécialisation dans deux domaines distincts peuvent s'inscrire dans deux départements de la Faculté des Arts (consulter la section de ladite Faculté, sous les rubriques « Overview of Programs Offered » et « Joint Honours Programs »). Ces étudiants devraient rencontrer un conseiller dans chacun des deux départements concernés, pour établir leur choix de cours et formuler leur projet de recherche interdisciplinaire, le cas échéant.

Cours obligatoires (15 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 231	(3)	Linguistique française
FREN 244	(3)	Traduction générale
FREN 245	(3)	Grammaire avancée
FREN 346	(3)	Traduction avancée

Cours complémentaires (21 crédits)

15 crédits, répartis comme suit :

12 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 494	(3)	Traduction spécialisée

3 crédits choisis parmi les cours suivants :

FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

I. Bloc : « Études littéraires »

3-6 crédits choisis parmi les cours de la Série Oeuvres et courants. (maximum de 3 crédits de cours de niveau 200)

Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »

0-3 crédits choisis parmi les cours des séries Création et Édition du bloc « Pratiques littéraires ».

(a) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(b) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.22.16 French Language and Literature (FREN) Related Programs**31022161 Concentration majeure langue et littérature françaises – Linguistique du français (36 crédits)**

Ce programme est aboli à partir de septembre 2009. Les étudiants inscrits à ce programme avant cette date doivent consulter le directeur des Études de 1er cycle qui les guidera sur la manière de compléter leur programme.

3.10.23 Geography (GEOG)

3.10.23.1 Location

Burnside Hall, Room 705
805 Sherbrooke Street West
Montreal, Quebec H3A 0B9

Telephone: 514-398-4951 (or leave a message: 514-398-4111)

Fax: 514-398-7437

Website: www.geog.mcgill.ca

3.10.23.2 About Geography

The Geography Department offers programs in both Arts and Science. See *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > [section 13.13.16: Geography \(GEOG\)](#)* for B.Sc. Geography programs, a list of teaching staff, an outline of the nature of Geography, and opportunities for study in this discipline.

Geography is a broad, holistic discipline; both a natural and a social science because it examines people and their environment and serves as a bridge between physical and cultural processes. Human Geography (a social science, thus B.A. programs) is concerned especially with the political, economic, social, and cultural processes and resource practices that create spatial patterns and define particular places. Physical Geography (B.Sc. programs) integrates disciplines such as climatology, geomorphology, geology, biology, hydrology, ecology, soil science, and even marine science. Whether considering greenhouse gas emissions, the spread of disease, or threats to biodiversity, in all cases geographers are interested in where things happen, why, and with what consequences.

Our graduates go on to careers in environmental consulting, social agencies, or non-governmental organizations. Skills in Geographic Information Science (GIS) are very marketable. Students are well prepared for graduate work in social sciences, urban planning, and environmental studies at leading schools.

3.10.23.3 Prerequisites

There are no departmental prerequisites for entrance to the B.A. Major concentrations or Honours programs in Geography. It is helpful for Arts students to include 6 credits of Mathematics in their CEGEP or pre-university programs. A student who has completed college or pre-university geography courses fully equivalent to those of first year university may, with the adviser's approval, substitute other courses as part of the Major concentrations or Honours programs. B.A. students in U0 are invited to take GEOG 205 for science credit and GEOG 200 for social science credit.

3.10.23.4 Bachelor of Arts (B.A.) - Minor Concentration Geography (18 credits)

The Minor Concentration Geography is designed to provide students in the Faculty of Arts with an overview of basic elements of human geography at the introductory and advanced level.

This Minor concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Systems).

Complementary Courses (18 credits)

9 credits selected from:

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

9 credits from Geography (GEOG) courses at the 300 or 400 level.

3.10.23.5 Bachelor of Arts (B.A.) - Minor Concentration Geographic Information Systems (18 credits)

This Minor concentration is designed to provide students in the Faculty of Arts who have an interest in Geographic Information Systems (GIS) with a basic, yet comprehensive knowledge of concepts and methods relating to the analysis of geospatial data.

This Minor concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Systems).

Required Courses (15 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 506	(3)	Advanced Geographic Information Science

Complementary Courses (3 credits)

3 credits selected from:

ATOC 309	(3)	Weather Radars and Satellites
COMP 557	(3)	Fundamentals of Computer Graphics
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 551	(3)	Environmental Decisions
URBP 505	(3)	Geographic Information Systems

3.10.23.6 Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Systems) (18 credits)

This Minor concentration may be expanded into the Major Concentration Geography (Urban Systems).

Complementary Courses (18 credits)

18 credits selected as follows:

Group A

9-12 credits selected from:

GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography
GEOG 494	(3)	Urban Field Studies

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378;

U3 - ARCH 515, ARCH 527, ARCH 528, ARCH 529, and ARCH 550.

Note: ARCH 550 has the same content as CIVE 433 but requires an additional project.

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 550	(3)	Urban Planning and Development

Art History & Communication Studies

COMS 425	(3)	Urban Culture & Everyday Life

Civil Engineering

CIVE 433 requires departmental permission to register (telephone: 514-398-6345).

CIVE 433	(3)	Urban Planning
CIVE 540	(3)	Urban Transportation Planning

Geography

GEOG 307	(3)	Socioeconomic Applications of GIS

History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Political Science

POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 506	(3)	Environmental Policy and Planning

3.10.23.7 Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)

This program is designed to cover the main elements of human geography.

Required Courses (7 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 210	(3)	Global Places and Peoples
GEOG 290	(1)	Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Analysis and Methodology

3 credits from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 506	(3)	Advanced Geographic Information Science

Geography

The remaining 18 credits are to be selected from Geography (GEOG) courses excluding GEOG 200 and GEOG 205. Of these 18 credits, at least 3 credits must be at the 400 level or above.

3.10.23.8 Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Systems) (36 credits)

This interdisciplinary concentration exposes students to the various approaches to urban studies in many disciplines.

Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Systems, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods
GEOG 494	(3)	Urban Field Studies

Complementary Courses (24 credits)

24 credits selected as follows:

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

21 credits from the course lists below:

Geography

* Students can choose one only from GEOG 210, GEOG 216 or GEOG 221.

GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 290	(1)	Local Geographical Excursion
GEOG 303	(3)	Health Geography
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 311	(3)	Economic Geography
GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography
GEOG 504	(3)	Industrial Restructuring - Geographic Implications
GEOG 507	(3)	Advanced Social Geography
GEOG 511	(3)	Advanced Political Geography

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378;

U3 - ARCH 515, ARCH 517, ARCH 520, ARCH 527, ARCH 528, ARCH 529, ARCH 550, ARCH 561, ARCH 562, ARCH 564, ARCH 566.

Note: ARCH 550 has the same content as CIVE 433 but requires an additional project.

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory

ARCH 550	(3)	Urban Planning and Development
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

Art History & Communication Studies

COMS 425	(3)	Urban Culture & Everyday Life

Civil Engineering

Note: CIVE 433 has the same content as ARCH 550, but has limited enrolment and departmental permission is required.

CIVE 433	(3)	Urban Planning
CIVE 540	(3)	Urban Transportation Planning

History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Management

FINE 445	(3)	Real Estate Finance

Political Science

POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3

3.10.23.9 Bachelor of Arts (B.A.) - Honours Geography (61 credits)

The B.A. Honours Geography program is more concentrated and focused than the Major concentration.

In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in a Geography Honours program must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Required Courses (16 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 290	(1)	Local Geographical Excursion
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research

Complementary Courses (45 credits)

45 credits selected as follows:

Introductory

12 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Additional Geography

18 credits of Geography (GEOG) courses selected in consultation with the Program Adviser.

Outside Geography

9 credits at the 300 or 400 level or above of courses taught by units other than Geography selected from the humanities, social and physical sciences or engineering that have been approved by the Program Adviser as related to the student's focus within Geography.

3.10.23.10 Bachelor of Arts (B.A.) - Honours Urban Systems (60 credits)

The B.A. Honours Urban Systems program is more concentrated and focused than the Major concentration. In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in a Geography Honours program must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students in the Honours Urban Systems, the total number of credits permitted outside Arts and Science is 30. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (21 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 494	(3)	Urban Field Studies

Complementary Courses (39 credits)

39 credits selected as follows:

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Geography

12 credits from the following Geography (GEOG) courses:

* Students can choose one only from GEOG 210, GEOG 216, and GEOG 221.

GEOG 203	(3)	Environmental Systems
GEOG 210*	(3)	Global Places and Peoples
GEOG 216*	(3)	Geography of the World Economy
GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 311	(3)	Economic Geography

GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography

18 credits from the following courses:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378

U3 - ARCH 515, ARCH 517, ARCH 527, ARCH 528, ARCH 529, ARCH 550, ARCH 561, ARCH 562, ARCH 564, ARCH 566

Note: ARCH 550 has the same content as CIVE 433 but requires an additional project.

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 550	(3)	Urban Planning and Development
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

Art History & Communication Studies

COMS 425	(3)	Urban Culture & Everyday Life

Civil Engineering

Note: CIVE 433 has the same content as ARCH 550, but has limited enrolment and departmental permission is required.

CIVE 433	(3)	Urban Planning
CIVE 540	(3)	Urban Transportation Planning

Geography

GEOG 504	(3)	Industrial Restructuring - Geographic Implications
GEOG 507	(3)	Advanced Social Geography
GEOG 511	(3)	Advanced Political Geography

History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Management

FINE 445	(3)	Real Estate Finance

Political Science

POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3

Remaining Courses

6 credits must be taken at or above the 300 level.

Courses may be selected from the lists above or from outside the program in consultation with the student's adviser.

3.10.23.11 Bachelor of Arts (B.A.) - Joint Honours Component Geography (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

In addition to the Faculty requirement that Joint Honours students maintain a minimum CGPA of at least 3.00, students in a Joint Honours Component Geography program must maintain a program GPA of at least 3.30.

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice

Complementary Courses (27 credits)

27 credits selected as follows:

Introductory

12 credits of introductory courses from:

GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1/GEOG 492D2. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 492D1	(1.5)	Joint Honours Research
GEOG 492D2	(1.5)	Joint Honours Research

Remaining Geography

6-9 credits from a coherent set of Geography (GEOG) courses approved by the Program Adviser. Including a field course is desirable.

3.10.23.12 Geography (GEOG) Related Programs and Study Semesters

31023121 Africa Field Study Semester

The Department of Geography (Prof. Thom Meredith), Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester. For further information, contact Martine Dolmière, Internship & Field Studies Officer, 514-398-1063; see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > [section 8.3: Africa Field Study Semester](#)*.

31023122 Panama Field Study Semester

The program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. For more information, see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > [section 8.6: Panama Field Study Semester](#)*.

3.10.23.13 Geography Courses of Most Interest to Arts Students

Geography Courses of Most Interest to Arts Students

GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	The Canadian City
GEOG 221	(3)	Environment and Health
GEOG 290	(1)	Local Geographical Excursion
GEOG 300	(3)	Human Ecology in Geography

Geography Courses of Most Interest to Arts Students

GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 309	(3)	Geography of Canada
GEOG 310	(3)	Development and Livelihoods
GEOG 311	(3)	Economic Geography
GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography
GEOG 351	(3)	Quantitative Methods
GEOG 370	(3)	Protected Areas
GEOG 381	(3)	Geographic Thought and Practice
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 424	(3)	Europe: Places and Peoples
GEOG 490	(3)	Geography: Independent Studies
GEOG 494	(3)	Urban Field Studies
GEOG 496	(3)	Geographical Excursion
GEOG 501	(3)	Modelling Environmental Systems
GEOG 502	(3)	Geography of Northern Development
GEOG 503	(3)	Advanced Topics in Health Geography
GEOG 504	(3)	Industrial Restructuring - Geographic Implications
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 507	(3)	Advanced Social Geography
GEOG 508	(3)	Resources, People, and Power
GEOG 509	(3)	Qualitative Methods
GEOG 510	(3)	Humid Tropical Environments
GEOG 511	(3)	Advanced Political Geography
GEOG 515	(3)	Contemporary Dilemmas of Development
GEOG 551	(3)	Environmental Decisions

3.10.24 History and Classical Studies (HIST & CLAS)**3.10.24.1 Location**

General Office, Room 608
Stephen Leacock Building, 6th Floor
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-3975
 Fax: 514-398-8365
 Email: undergrad.history@mcgill.ca
 Websites: www.mcgill.ca/history; www.mcgill.ca/classics

3.10.24.2 About History and Classical Studies

3.10.24.2.1 About History

In today's world, people who can research thoroughly, write effectively, speak eloquently, and think clearly are in great demand. Recent graduates of our programs are currently pursuing careers in a variety of professions, including law, business, journalism, academia, finance, government, the arts, science, education, and medicine. All have benefited as professionals, individuals, and citizens from their study of history. The study of history develops skills in research, writing, and critical thinking and provides a context for understanding the present world. History requires and develops flexible thinking as it normally employs inductive reasoning. Historians usually begin with a specific temporally and spatially defined issue and try to determine a pattern or cause for change over time. They move from the particular to the general and, as historians usually begin with an open-ended question, they often find themselves drawing on other disciplines to understand the problem.

3.10.24.2.2 Programs in History

The Department offers three kinds of undergraduate programs: Honours, Major concentration, and Minor concentration. Courses in History fall into one of the following FOUR areas: The Americas; Europe; Asia/Africa/Middle East; Global/Thematic. In each program, a specified number of credits may be selected from any single area. Each student's program is worked out with an academic program adviser to suit the student's specific needs within the general framework of the program.

Courses within each area are listed on the History Department's website. Please refer to our website for a listing of courses being offered in 2013–2014 in each area.



IMPORTANT NOTE: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs, but may be considered as having met prerequisites for an upper-level course—please discuss with the professor of an upper-level course requiring the prerequisite or your academic program adviser.

Candidates entering the University as U0 or U1 students may, during their first year, take all courses at the 200 level as well as courses at the 300 level for which they have prerequisites. First-Year Seminars are also available in History; see [section 3.6.5.9: First-Year Seminar Courses](#).

3.10.24.2.3 About Classics

Classical Studies offers an in-depth study of the languages, literature, history, and culture of ancient Greece and Rome. Students may complete one of the four standard undergraduate programs (Minor, Major, Honours, Joint Honours concentration). The Minor and Major concentrations provide a useful complement for students in the arts and sciences. Two separate streams allow students to put emphasis either on the ancient languages or on the culture of the ancient Mediterranean. The Joint Honours and Honours degrees are designed to train students who wish to make Classics a basis for academic careers. They also offer students the prospect of favourable consideration for graduate and other professional schools.

All Classics degree options require students to choose courses from one or more of the following thematic areas:

- Classical Languages
- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

The current list of courses within each thematic area is available on the Classical Studies website: www.mcgill.ca/classics/teaching/thematic-areas.

3.10.24.3 History and Classical Studies (HIST & CLAS) Faculty

Chair

Elizabeth Elbourne

Directors

Hans Beck (*Director of Classical Studies*)

Suzanne Morton (*History Undergraduate Program Director*)

Emeritus Professors

Valentin Boss; B.A.(Cant.), Ph.D.(Harv.)

Myron Echenberg; M.A.(McG.), Ph.D.(Wisc.)

Andrée Lévesque; B.A.(Laval), M.A., Ph.D.(Duke)

Michael P. Maxwell; B.A.(Sir G. Wms.), M.A., Ph.D.(McG.)

Emeritus Professors

Carman I. Miller; B.A., B.Ed.(Acad.), M.A.(Dal.), Ph.D.(Lond.)

Desmond Morton; B.A.(RMC), B.A., M.A.(Oxf.), Ph.D.(Lond.) (*Hiram Mills Emeritus Professor of History*)

Yuzo Ota; B.A., M.A., PhD.(Tokyo)

Albert Schachter; B.A.(McG.), D.Phil.(Oxf.) (*Hiram Mills Emeritus Professor of Classics*)

George Michael Woloch; B.A.(Yale), M.A.(Oxf.), Ph.D.(Johns Hop.) (*John MacNaughton Emeritus Professor of Classics*)

Brian J. Young; B.A.(Tor.), M.A., Ph.D.(Qu.) (*James McGill Emeritus Professor of History*)

Professors

Hans Beck; Ph.D.(Erlangen) (*John MacNaughton Professor of Classics*)

Gwyn Campbell; B.Soc.Sc., M.Soc.Sc.(Birm.), Ph.D.(Wales) (*Canada Research Chair*)

Allan Greer; B.A.(Br. Col.), M.A.(Car.), Ph.D.(York) (*Canada Research Chair*)

John W. Hellman; B.A.(Marquette), M.A., Ph.D.(Harv.)

Peter Hoffmann; Ph.D.(Munich), F.R.S.C. (*William Kingsford Professor of History*)

Gershon D. Hundert; B.A., M.A.(Ohio St.), Ph.D.(Col.) (*Leonor Segal Professor of Jewish Studies*) (*joint appt. with Jewish Studies*)

Suzanne Morton; B.A.(Trent), M.A., Ph.D.(Dal.)

Nancy F. Partner; B.A., M.A., Ph.D.(Calif.)

Andrea Tone; B.A.(Qu.), M.A., Ph.D.(Emory) (*joint appt. with Social Studies of Medicine*) (*Canada Research Chair*)

Gil E. Troy; A.B., A.M., Ph.D.(Harv.)

David J. Wright; B.A., M.A.(McG.), D.Phil.(Oxf.) (*joint appt. with Health and Social Policy*) (*Canada Research Chair*)

Robin D.S. Yates; B.A., M.A.(Oxf.), M.A.(Calif.), Ph.D.(Harv.) (*James McGill Professor*) (*joint appt. with East Asian Studies*)

John Zucchi; B.A., M.A., Ph.D.(Tor.)

Associate Professors

Malek Abisaab; B.A.(Beirut), M.A.(CUNY), Ph.D.(SUNY) (*joint appt. with Islamic Studies*)

Subho Basu; B.A., M.A.(Visva-Bharati Univ.), M.Phil.(Jawaharal Nehru Univ.), Ph.D.(Camb.) (*Effective July 2013*)

Paula Clarke; B.A.(Oxf. and Nfld.), M.A.(Tor.), Ph.D.(Lond.)

Brian Cowan; B.A.(Reed), M.A., Ph.D.(Princ.) (*Canada Research Chair*)

Catherine Desbarats; B.A.(Qu.), D.Phil.(Oxf.), Ph.D.(McG.)

Nicholas Dew; B.A., M.A., Ph.D.(Oxf.)

Elizabeth Elbourne; B.A., M.A.(Tor.), D.Phil.(Oxf.)

Michael Fronda; B.A.(C'nell), M.A., Ph.D.(Ohio St.)

Elsbeth Heaman; B.A., M.A.(McG.), Ph.D.(Tor.)

Catherine C. LeGrand; B.A.(Reed), M.A., Ph.D.(Stan.)

Brian Lewis; B.A., M.A.(Oxf.), A.M., Ph.D.(Harv.)

Lorenz Lüthi; Lic.Phil.I(Zürich), M.A., M.Phil., Ph.D.(Yale)

Leonard Moore; A.B., M.A., Ph.D.(Calif.)

Jason Opal; B.A.(C'nell), M.A., Ph.D.(Brandeis)

Laila Parsons; B.A.(Exe.), D.Phil.(Oxf.) (*joint appt. with Institute of Islamic Studies*)

Jarrett Rudy; B.A., M.A.(Ott), Ph.D.(McG.)

Daviken Studnicki-Gizbert; BAC Spécialisé(Montr.), M.Phil., Ph.D.(Yale)

Griet Vankeerberghen; B.A., M.A.(Louvain), Ph.D.(Princ.)

Faith Wallis; B.A., M.A.(McG.), Ph.D.(Tor.) (*joint appt. with Social Studies of Medicine*)

Assistant Professors

Anastassios Anastassiadis; B.A., M.A.(Middlebury), Ph.D.(Sciences Po, Paris) (*Papachristidis Chair in Modern Greek Studies*)

Charles W. Gladhill; B.A.(Mich.), M.A.(Georgia South.), Ph.D.(Stan.)

Lynn Kozak; B.A.(Barnard), M.A.(Lond.), Ph.D.(Nott.)

James Krapfl; A.B.(Stan.), M.A.(Central European Univ. Budapest), Ph.D.(Calif.)

Johanna Ransmeier; B.A.(Amh.), M.A., Ph.D.(Yale)

Jon Dylan Soske; B.A.(USC), M.A.(Calif., Berk.), Ph.D.(Tor.)

Judith Szapor; B.A., M.A., Ph.D.(York)

Gavin Walker; B.A., M.A.(Penn.), Ph.D.(C'nell) (*joint appt. with East Asian Studies*)

Part-time Assistant Professor

Jason Szabo; M.D.(Alta.), M.A., Ph.D.(McG.)

Faculty Lecturers

Margaret Palczynski; B.Sc.(McG.), M.A.(C'dia)

Martin Sirois; B.A.(Montr.), M.A.(Princ.), M.A.(McG.)

3.10.24.4 Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)

This program may be expanded to the Major Concentration History.

Complementary Courses (18 credits)

18 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A minimum of 12 credits at the 300 level or higher.

A minimum of 15 credits from any one area.

Students should see an adviser to plan a program that suits their needs.

Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars

HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease

HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2

HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain

HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

3.10.24.5 Bachelor of Arts (B.A.) - Major Concentration History (36 credits)

Please note that this program is currently under review.

Complementary Courses (36 credits)

36 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A maximum of 12 credits at the 200 level or lower.

A maximum of 24 credits from any one area.

3 credits in history of the pre-1800 period.

3 credits in history of the post-1800 period.

Students should see an adviser to plan a program that suits their needs. Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution

HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557.

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2

HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1

HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History

HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

Courses Offered by Other Units

The following course(s) may be chosen by History Major concentration and Honours students as part of their programs.

Please consult with History Department program advisers for courses that do not appear here.

Anthropology (ANTH)

ANTH 306	(3)	Native Peoples' History in Canada

Art History (ARTH)

Please consult with History Department program advisers.

Canadian Studies (CANS)

Please consult with History Department program advisers.

Islamic Studies (ISLA)

Please consult with History Department program advisers.

Jewish Studies (JWST)

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

Quebec Studies (QCST)

Please consult with History Department program advisers.

NOTE: AP/IB credits may not be counted toward history program credits but may be considered as having met prerequisites for upper-level history courses. Students should consult with the Honours Program Adviser.

3.10.24.6 Bachelor of Arts (B.A.) - Honours History (60 credits)

Please note that this program is currently under review.

Students must maintain a 3.30 grade point average in their program courses and must have no less than a "B" in any program course. In addition, and in accordance with Faculty of Arts rules, students must maintain an overall CGPA of 3.00.

Required Course (3 credits)

HIST 399	(3)	History and Historical Methods

Complementary Courses (57 credits)

57 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A maximum of 15 credits at the 200 level or lower.

A maximum of 42 credits in any one of the areas.

A minimum of 12 credits of Honours seminars (these are listed with their thematic area). Each Honours seminar comprises a 6-credit course with a D1/D2 course number or two 3-credit courses to be taken consecutively. The second term component includes the completion of a major research paper based substantially on primary-source research. Both parts of a D1/D2 seminar must be completed to receive credit. The first course of a two-part seminar may be taken alone in exceptional circumstances, but in that case will be counted towards the complementary course component of the program only and will not be counted as an Honours seminar.

In all cases, students should see an adviser to plan a program that suits their needs. Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914

HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557.

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History

HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China

HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West

HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 454/HIST 455, HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar

HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

Courses Offered by Other Units

The following course(s) may be chosen by History Major concentration and Honours students as part of their programs.

Please consult with History Department program advisers for courses that do not appear here.

Anthropology (ANTH)

ANTH 306	(3)	Native Peoples' History in Canada

Art History (ARTH)

Please consult with History Department program advisers.

Canadian Studies (CANS)

Please consult with History Department program advisers.

Islamic Studies (ISLA)

Please consult with History Department program advisers.

Jewish Studies (JWST)

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

Quebec Studies (QCST)

Please consult with History Department program advisers.

3.10.24.7 Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)

Please note that this program is currently under review.

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students must maintain a 3.30 grade point average in their program courses and must have no less than a "B" in any program course. In addition, and in accordance with Faculty of Arts rules, students must maintain an overall CGPA of 3.00.

Note: AP/IB credits may not be counted toward history program credits but may be considered as having met prerequisites for upper-level courses. Students should consult the Honours Program Adviser

Required Course (3 credits)

HIST 399	(3)	History and Historical Methods

Complementary Courses (33 credits)

33 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A maximum of 12 credits at the 200 level or lower.

A maximum of 27 credits in any one of the areas.

A minimum of 6 credits of Honours seminars (these are listed with their thematic area). Each Honours seminar comprises a 6-credit course with a D1/D2 course number or two 3-credit courses to be taken consecutively. The second term component includes the completion of a major research paper based

substantially on primary-source research. Both parts of a D1/D2 seminar must be completed to receive credit. The first course of a two-part seminar may be taken alone in exceptional circumstances, but in that case will be counted towards the complementary course component of the program only and will not be counted as an Honours seminar.

In all cases, students should see an adviser to plan a program that suits their needs. Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction

HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557.

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History

HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain

HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation

HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment

HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

Courses Offered by Other Units

The following course(s) may be chosen by History Major concentration and Honours students as part of their programs.

Please consult with History Department program advisers for courses that do not appear here.

Anthropology (ANTH)

ANTH 306	(3)	Native Peoples' History in Canada

Art History (ARTH)

Please consult with History Department program advisers.

Canadian Studies (CANS)

Please consult with History Department program advisers.

Islamic Studies (ISLA)

Please consult with History Department program advisers.

Jewish Studies (JWST)

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

Quebec Studies (QCST)

Please consult with History Department program advisers.

3.10.24.8 Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)

Two separate streams allow students to put emphasis either on the ancient languages or on the culture of the ancient Mediterranean.

This program may be expanded to the Major Concentration Classics.

Complementary Courses (18 credits)

Students select one of the following two streams of study:

- Classical Language Stream

- Classical Studies Stream

Classical Language Stream

18 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

12 credits minimum in Classical Languages

a minimum of 3 credits at the 300 level or higher of CLAS courses;

a maximum of 12 credits of 200-level courses.

Classical Studies Stream

18 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

6 credits minimum in Classical Languages

a minimum of 6 credits in one of the following areas:

- Classical Literature

- Ancient History

- Philosophy and Religion

- Modern Greek

a minimum of 3 credits of 300-level or higher CLAS courses

a maximum of 12 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1

CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections

CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion

CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2

POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

3.10.24.9 Bachelor of Arts (B.A.) - Minor Neo-Hellenic Concentration (18 credits)

This Minor immerses students in the rich literary and cultural tradition of Greece. It is designed to enable students to achieve linguistic proficiency in Modern Greek and to provide them with an understanding of the diachronic influence and the synchronic importance of the Modern Greek language, literature, and history in the contemporary global world of diversity and pluralism.

Complementary Courses (18 credits)

12-15 credits chosen from:

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 337	(3)	Greekness: Rome to Ottomans
HIST 349	(3)	Greece: From Ottoman to the European Union

3-6 credits to be chosen from the list below (with adviser's approval, other courses might also be considered):

ARTH 314	(3)	The Medieval City
CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
HIST 205	(3)	Ancient Mediterranean History
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 362	(3)	Byzantine History and Historiography
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 379	(3)	Greek History: Hellenistic Period
PHIL 345	(3)	Greek Political Theory
PHIL 353	(3)	The Presocratic Philosophers
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 454	(3)	Ancient Moral Theory
POLI 333	(3)	Western Political Theory 1

Minimum 12 credits at the 300 level or above.

3.10.24.10 Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)

Two separate streams allow students to put emphasis either on the ancient languages or on the culture of the ancient Mediterranean.

Complementary Courses (36 credits)

Students select one of the following two streams of study:

- Classical Language Stream
- Classical Studies Stream

Classical Language Stream

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

18 credits minimum in Classical Languages

a minimum of 6 credits in each of two of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

a maximum of 12 credits of 200-level courses.

Classical Studies Stream

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

9 credits minimum in Classical Languages

a minimum of 12 credits in one of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion

- Modern Greek

a minimum of 3 credits in at least three different areas

a minimum of 3 credits of 300-level or higher CLAS courses

a maximum of 12 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science

PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

3.10.24.11 Bachelor of Arts (B.A.) - Honours Classics (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (6 credits)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 208	(3)	Introduction to Roman Literature

Complementary Courses (54 credits)

54 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

6 credits minimum from Honours Reading list courses.

30 credits minimum in Classical Languages at the 200, 300, and 400 levels chosen as follows:

18 credits minimum in one Classical language, ancient Greek or Latin and

12 credits minimum in the other language;

a minimum of 6 credits of Classical languages at the 400 level.

A minimum of 6 credits in each of two of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

A maximum of 18 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Honours Reading Courses

Minimum of 6 credits from:

CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Languages - Latin

Minimum of 18 or 12 credits of Latin

Note: A minimum of 6 credits of Classical languages at the 400 level is required.

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

Minimum of 18 or 12 credits of Ancient Greek

Note: A minimum of 6 credits of Classical languages at the 400 level is required.

CLAS 220D1	(3)	Introductory Ancient Greek

CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama

CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical Literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History

HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry

CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

3.10.24.12 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable). For Classics, see the Undergraduate Adviser.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Complementary Courses (36 credits)

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

24 credits minimum in Classical Languages with a minimum of 3 credits at the 400 level.

A minimum of 6 credits in each of two of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

A maximum of 15 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic

CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical Literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic

HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language

CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

3.10.25 History and Philosophy of Science (HPSC)

3.10.25.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557
Fax: 514-398-1748
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/hpsc

Adviser: Karin Bourgeois (*on leave*)
Adviser: Ines Scharnweber (*interim*) ines.scharnweber@mcgill.ca

3.10.25.2 About History and Philosophy of Science

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. In addition, there is an ongoing seminar series of talks by visiting speakers. Please visit www.mcgill.ca/hpsc/seminars and www.mcgill.ca/hpsc/lectures.

3.10.25.3 History and Philosophy of Science (HPSC) Faculty

Program Committee Chair

Nicholas Dew; B.A., M.Sc., D.Phil.(Oxf.) (*History and Classical Studies*) (2011–2014)

Program Committee

Darin Barney; B.A., M.A.(S. Fraser), Ph.D.(Tor.) (*Art History and Communication Studies*)

Emily Carson; M.A.(McG.), Ph.D.(Harv.) (*Philosophy*)

Stephen Menn; M.A.(Chic.), M.A.(Johns Hop.), Ph.D.(Chic.), Ph.D.(Johns Hop.) (*Philosophy*)

Jamil Ragep; M.A.(Mich.), Ph.D.(Harv.) (*Islamic Studies*)

Tobias Rees; Ph.D.(Calif., Berk.) (*Social Studies of Medicine/Anthropology*)

Thomas Schlich; M.D.(Marburg), Ph.D.(Freiburg) (*Canada Research Chair in History of Medicine*) (*Social Studies of Medicine*)

Dirk Schlimm; M.Sc.(TU Darmstadt), M.Sc., Ph.D.(Carn. Mell) (*Philosophy*)

Jonathan Sterne; A.M., Ph.D.(Ill.) (*Art History and Communication Studies*)

3.10.25.4 Bachelor of Arts (B.A.) - Minor Concentration History and Philosophy of Science (18 credits)

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. There is an ongoing seminar series of talks by visiting speakers; please visit <http://www.mcgill.ca/hpsc/seminars/> and <http://www.mcgill.ca/hpsc/lectures/>.

Complementary Courses (18 credits)

18 credits with a maximum of 9 credits at the 200 level selected as follows:

Philosophy of Science

6-12 credits of courses focused on the Philosophy of Science with no more than 6 credits at the 200 level chosen from the following:

Communication Studies (COMS)

COMS 210	(3)	Introduction to Communication Studies
COMS 410	(3)	Cultures in Visualization

History and Philosophy of Science (HPSC)

HPSC 300	(3)	Independent Studies: History and Philosophy of Science
HPSC 500	(3)	Interdisciplinary Seminar: History & Philosophy of Science

Philosophy (PHIL)

Either PHIL 210 or PHIL 310 may count toward the program but not both.

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 340	(3)	Philosophy of the Social Sciences 1
PHIL 341	(3)	Philosophy of Science 1
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 440	(3)	Philosophy of Social Sciences 2
PHIL 441	(3)	Philosophy of Science 2
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 541	(3)	Seminar: Philosophy of Science
PHIL 580	(3)	Seminar: Problems of Philosophy 1

Religious Studies (RELG)

RELG 340	(3)	Religion and the Sciences

Sociology (SOCI)

SOCI 338	(3)	Introduction to Biomedical Knowledge

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

ANTH 359	(3)	History of Archaeological Theory

Biology (BIOL)

BIOL 210 (3) Perspectives of Science

Geography (GEOG)

GEOG 381 (3) Geographic Thought and Practice

History (HIST)

HIST 249 (3) Health and the Healer in Western History

HIST 319 (3) The Scientific Revolution

HIST 335 (3) Science and Medicine in Canada

HIST 348 (3) China: Science-Medicine-Technology

HIST 350 (3) Science and the Enlightenment

HIST 356 (3) Medicine in the Medieval West

HIST 381 (3) Colonial Africa: Health/Disease

HIST 410 (3) Topics in History of Science

HIST 447 (3) The Natural History of America

HIST 452 (3) Medicine in Europe 1500-1700

HIST 457 (3) Topics in Medical History

HIST 458 (3) Modern Medicine: Seminar

HIST 459 (3) Modern Medicine: Research

HIST 466 (3) Seminar: Medieval Medicine

HIST 496 (3) Research: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300 (3) Independent Studies: History and Philosophy of Science

HPSC 500 (3) Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345 (3) Science and Civilization in Islam

Mathematics (MATH)

MATH 338 (3) History and Philosophy of Mathematics

Psychology (PSYC)

PSYC 403 (3) Modern Psychology in Historical Perspective

3.10.26 Industrial Relations

3.10.26.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431

Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557

Fax: 514-398-1748

Email: interdisciplinary.arts@mcgill.ca

Website: www.mcgill.ca/indr

Adviser: Karin Bourgeois (*on leave*)

Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.26.2 About Industrial Relations

Industrial Relations is an interdisciplinary program, enabling students in the Faculty of Arts to study Labour-Management Relations. Students take courses in Economics, Labour-Management Relations, and Sociology. These courses examine the economic and social forces affecting employer-employee relations in both national and global contexts.

3.10.26.3 Further Information

Changes may be made in the program after this publication was prepared. For the most up-to-date information on the program, new and returning students should refer to the website: www.mcgill.ca/indr.

3.10.26.4 Bachelor of Arts (B.A.) - Faculty Program Industrial Relations (54 credits)

The Faculty Program in Industrial Relations provides students with a basic knowledge of industrial relations institutions and practices as well as the principal social and economic forces that underlie them. The program is composed of 54 credits of courses drawn from the Departments of Economics and Sociology within the Faculty of Arts and from Labour-Management Relations within the Desautels Faculty of Management.

Credits outside Arts and Science: Students in the Faculty Program in Industrial Relations may take no more than 30 credits in courses outside of the Faculties of Arts and of Science. This total includes required and complementary courses taken for the IR Program and elective courses. Moreover, in the U1 year a student should take at most only one 3-credit elective course in the Desautels Faculty of Management in addition to the required courses, INDR 294 and MGCR 222.

Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements."

Continuance in the Program:

To remain in the program beyond the first year, students must take the six "U1 Required Courses" listed below during their first year and earn a 2.50 GPA in ECON 208, ECON 209, INDR 294, MGCR 222, SOCI 235, and SOCI 312

Note: Continuing Education courses may not be used to fulfil IR program requirements. Similarly, courses in Continuing Education taken before entering the program may not be used to fulfil program requirements.

Required Courses (42 credits)

U1 Required

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
INDR 294	(3)	Introduction to Labour-Management Relations
MGCR 222	(3)	Introduction to Organizational Behaviour
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry

U2 Required

NOTE: ECON 306D1 and ECON 306D2 are no longer offered. The program is currently under revision.

INDR 494	(3)	Labour Law
ORGB 423	(3)	Human Resources Management
SOCI 304	(3)	Sociology of the Welfare State
SOCI 420	(3)	Organizations

U3 Required

INDR 492	(3)	Globalization and Labour Policy
INDR 496	(3)	Collective Bargaining

Complementary Courses (12 credits)

U2 Complementary

6 credits of statistics courses (either Economics or Sociology but not both):

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis

U3 Complementary

6 credits from the following:

ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 310	(3)	Introduction to Behavioural Economics
ECON 426	(3)	Labour Economics
INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	International Employment Relations
INDR 495	(3)	Labour Relations: Public Sector
INDR 497	(3)	Contract Administration
INDR 499	(3)	Internship in Industrial Relations
SOCI 321	(3)	Gender and Work
SOCI 354	(3)	Dynamics of Industrial Societies

3.10.27 International Development Studies (INTD)

3.10.27.1 Location

Institute for the Study of International Development
 Peterson Hall, Room 126
 3460 McTavish Street
 Montreal, Quebec H3A 0E6

Telephone: 514-398-4804
 Fax: 514-398-8432
 Email: ids@mcgill.ca
 Website: www.mcgill.ca/isisd

3.10.27.2 About International Development Studies

The International Development Studies (IDS) program is designed for those students who wish to take advantage of the resources available at McGill to pursue an interdisciplinary program of study focusing on the problems of the developing countries.

Most courses above the 200 level have prerequisites. Although these may be waived by instructors in some cases, students are urged to confirm their eligibility for courses when they prepare their programs of study. Note that certain courses (especially those in Management) may not be available owing to space limitations. Students should check the Class Schedule on Minerva for confirmation as to which term courses are offered.

3.10.27.3 International Development Studies (INTD) Faculty**Program Chair**

P. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.) (*Political Science*) (*Director, Institute for the Study of International Development*)

Program Adviser

Lisa Stanischewski

Program Committee

Marc (Marcos) Ancelovici; B.Sc., M.Sc.(Montr.), Ph.D.(MIT) (*Sociology*)

Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin) (*Political Science*)

Jenny Burman; B.A.(C'dia), M.A., Ph.D.(York) (*Art History and Communications Studies*)

Oliver Coomes; M.A.(Tor.), Ph.D.(Wisc. Mad.) (*Geography*)

Kathleen Fallon; B.A.(Calif.), M.A., Ph.D.(Ind.) (*Sociology*)

Franque Grimard; B.A.(York), Ph.D.(Princ.) (*Economics*)

Erik Kuhonta; B.A.(Penn.), M.A.(C'nell), Ph.D.(Stan.) (*Political Science*)

David Rothwell; B.A.(Pitzer), M.S.W.(Tulane), Ph.D.(Hawaii) (*Social Work*)

Jon Unruh; M.S.(Wisc.), Ph.D.(Ariz.) (*Geography*)

Faculty Lecturer

K. McAllister; B.Sc., M.A.(Dal.), Ph.D.(McG.)

3.10.27.4 Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)

This program may be expanded to the Major Concentration International Development Studies.

Course Selection Guidelines for the Overall Program

1. At least 9 of the 18 credits must be at the 300 level or above.
2. Students may complete the Minor concentration with no more than 9 credits in total from any one discipline.

Required Courses (9 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development

Complementary Courses (9 credits)**Introductory**

3 credits from the following introductory courses:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

6 credits from any of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective

ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945

ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology

ANTH 512 (3) Political Ecology

Stream 4 - Economics

ECON 326 (3) Ecological Economics

Stream 4 - Geography

GEOG 302 (3) Environmental Management 1
 GEOG 403 (3) Global Health and Environmental Change
 GEOG 408 (3) Geography of Development
 GEOG 410 (3) Geography of Underdevelopment: Current Problems
 GEOG 510 (3) Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397 (3) Topics in International Development
 INTD 490 (3) Development Field Research
 INTD 499 (3) Internship: International Development Studies

Stream 4 - Management Core

MGCR 360 (3) Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524 (3) Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340 (3) Global Perspectives on Food
 NRSC 540 (3) Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501 (3) Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506 (3) Environmental Policy and Planning
 URBP 520 (3) Globalization: Planning and Change

3.10.27.5 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)

Course Selection Guidelines for the Overall Program

1. In their complete program (36 credits), students can take a maximum of 12 credits from any one discipline and must complete a minimum of 9 credits from two disciplines.
2. At least 18 of the 36 credits must be at the 300 level or above.
3. In the final year (U3), no program courses may be taken below the 300 level.

Required Courses (15 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (21 credits)

Introductory

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

15 credits from one of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics

ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development

SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society

SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

3.10.27.6 Bachelor of Arts (B.A.) - Honours International Development Studies (57 credits)

Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. In their complete program (57 credits), students must take at least 12 credits in at least one discipline, but cannot take more than 18 credits in any one discipline.
2. At least 30 of the 57 credits must be at the 300 level or above; 9 credits of these must be at the 400 level or above. Students may complete fieldwork, or an honours thesis, or an honours thesis with fieldwork (INTD 490 or INTD 491 or INTD 492) as part of the 400-level requirements of their stream.
3. In the final year (U3), no program courses may be taken below the 300 level.

Required Courses (15 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (42 credits)

Introductory

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Method and Language

12 credits of Method and Language courses selected as follows:

3-6 credits from the following Method courses selected in consultation with the International Development Studies Adviser.

Note: Students taking 6 credits select either ECON 227D1/D2 or SOCI 350 and SOCI 461.

ANTH 344	(3)	Quantitative Approaches to Anthropology
ECON 227D1	(3)	Economic Statistics

ECON 227D2	(3)	Economic Statistics
POLI 311	(3)	Techniques of Empirical Research
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

6-9 credits of Language courses.

Students are required to master a language appropriate to an area of the developing world in which they have a particular interest. Among the languages that are included are: Arabic, Chinese, French as a Second Language, Korean, Portuguese, Spanish, Swahili and Urdu. Other language options can be approved by the Adviser. Students who already have second language capability have the option to do: 6-9 credits of another language; or additional courses taught in that language.

Streams

24 credits from one of the four IDS streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods

GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

3.10.27.7 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 24 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
2. In the final year (U3), no program courses may be taken below the 300 level.

Required Courses (18 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 491	(3)	Honours Thesis
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (18 credits)**Introductory**

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

12 credits from one of the four IDS streams with at least three disciplines within the stream:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies

INTD 597	(3)	Seminar in International Development

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

3.10.28 Islamic Studies (ISLA)

3.10.28.1 Location

Morrice Hall, Room 319
3485 McTavish Street
Montreal, Quebec H3A 0E1

Telephone: 514-398-6077

Fax: 514-398-6731

Email: info.islamics@mcgill.ca

Website: www.mcgill.ca/islamicstudies

3.10.28.2 About Islamic Studies

The Institute of Islamic Studies offers a minor in Islamic Studies by completing courses in history, literature, politics, philosophy, law, and languages (Arabic, Turkish, Persian, and Urdu) at the 100, 200, 300, 400, and 500 level.

To declare a minor in Islamic Studies, you must have been offered admission into a Bachelor's program at McGill.

3.10.28.3 Islamic Studies (ISLA) Faculty

Director

TBD

Emeritus and Retired Professors

Sajida S. Alvi; B.A., M.A., Ph.D.(Punj.) (*Emeritus*)

Issa J. Boullata; Ph.D.(Lond.) (*Emeritus*)

Donald P. Little; B.A.(Vanderbilt), M.A.(Stan.), Ph.D.(Calif.) (*Emeritus*)

Eric Ormsby; B.A.(Penn.), M.A.(Princ.), M.L.S.(Rutg.), Ph.D.(Princ.) (*Retired*)

A. Üner Turgay; B.A.(Robert Coll., Istanbul), M.A., Ph.D.(Wisc.) (*Retired*)

Professor

F. Jamil Ragep; B.A., M.A.(Mich.), Ph.D.(Harv.)

Associate Professors

Malek Abisaab; B.A.(Lebanese U.), M.A.(CUNY), Ph.D.(SUNY, Binghamton)

Rula J. Abisaab; B.A.(Amer. U. Beirut), M.A.(Calif. St.), M.Phil., Ph.D.(Yale)

Michelle L. Hartman; B.A.(Col.), D.Phil.(Oxf.)

Setrag Manoukian; B.A.(Venice), M.A., Ph.D.(Mich.)

Khalid Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.)

Laila Parsons; B.A.(Exe.), D.Phil.(Oxf.)

Robert Wisnovsky; B.A.(Yale), M.A., Ph.D.(Princ.)

Assistant Professors

Ahmed Fekry Ibrahim; B.A.(Al-Azhar, Univ.), M.A.(AUC), Ph.D.(G'town)

Prashant Keshavmurthy; B.A.(Jawaharlal Nehru, Univ.), M.A.(Delhi), Ph.D.(Col.)

Pasha M. Khan; B.A.(Tor.), M.A., Ph.D.(Col.)

Faculty Lecturers

Shokry Gohar; B.A.(Cairo)

David Nancekivell; B.A., M.A.(Laval)

Pouneh Shabani-Jadidi; B.A., M.S., Ph.D.(Azad), Ph.D.(Ott.)

3.10.28.4 Bachelor of Arts (B.A.) - Minor Concentration Islamic Studies (18 credits)

This Minor concentration permits students to explore the development and diversity of Islam through courses that focus on Islamic history, religion and civilization in the pre-modern period (pre-19th century), as well as through courses that focus on the dynamics of modern and contemporary (19th through 21st centuries) Muslim societies and cultures.

Required Courses (6 credits)

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

Complementary Courses (12 credits)

12 credits selected from:

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islam in South Asia: 1707 to Present
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 585	(3)	Arab Women's Literature

3.10.29 Jewish Studies (JWST)**3.10.29.1 Location**

3438 McTavish Street, Room 202
Montreal, Quebec H3A 0E4

Telephone: 514-398-6543
 Fax: 514-398-5158
 Website: www.mcgill.ca/jewishstudies

3.10.29.2 About Jewish Studies

The Department of Jewish Studies, established in 1968, offers an interdisciplinary approach to the study of Judaica. It includes:

- a selection of courses that will enable students not taking a concentration in Jewish Studies to broaden their knowledge of Jewish history and culture;
- elementary, intermediate, and advanced courses in Jewish languages – Hebrew, Yiddish, and Aramaic. In the case of the first two, this includes attention to both spoken idiom and written texts;
- specialized courses in the various disciplines that comprise Jewish Studies for students who have specific academic interests;
- a minor concentration for students who wish to add competence in Jewish Studies to their major field of study;
- a comprehensive major concentration, and an honours program culminating in advanced seminars and tutorials for students contemplating careers in the various fields of Judaica. The Honours program in Jewish Studies will give students the necessary linguistic, textual, and bibliographical knowledge to enable them to pursue graduate work in Jewish Studies.

3.10.29.3 Jewish Studies (JWST) Faculty

Chair

Eric Caplan

Professors

David Aberbach; B.A.(Univ. Coll. Lond.), M.Litt., Ph.D.(Oxf.)

Gershon D. Hundert; B.A.(Col.), M.A.(Ohio St.), Ph.D.(Col.) (*Segal Professor of Jewish Studies*)

B. Barry Levy; B.A., M.A., B.R.E.(Yeshiva), Ph.D.(NYU)

Associate Professors

Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)

Carlos Fraenkel; B.A., M.A., Ph.D.(Free Univ., Berlin)

Yael Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.)

Lawrence Kaplan; B.A.(Yeshiva), M.A., Ph.D.(Harv.)

Lecturers

Liane Alitowski; B.Mus., M.Mus.(Ind.), D.M.A.(Stony Brook)

Lea Fima; B.Ed.(Beit Berl College), M.A.(McG.)

Esther Frank; B.A., M.A.(McG.)

Anna Gonshor; B.A., M.L.S., M.A.(McG.)

Karen Slouch; B.Ed., M.A.(McG.)

Adjunct Professors

Magdalena Opalski; M.A.(Warsaw), Ph.D.(Ott.)

Ruth Wisse; M.A.(Col.), Ph.D.(McG.)

3.10.29.3.1 Program Advisers

Minor Concentration in Jewish Law

Lawrence Kaplan, 514-398-5008

Minor Concentration in Jewish Studies

Eric Caplan, 514-398-6544

Major Concentration in Jewish Studies

Eric Caplan, 514-398-6544

Honours in Jewish Studies

Eric Caplan, 514-398-6544

3.10.29.4 Bachelor of Arts (B.A.) - Minor Concentration Jewish Law (18 credits)

The Minor Concentration Jewish Law is designed to provide students with a special interest in Law, and particularly students from the Faculty of Law who are now permitted a minor in the Faculty of Arts, a basic but comprehensive knowledge of the concepts and methods related to Jewish Law.

This Minor concentration may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits selected as follows:

0 - 3 credits from:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

15 - 18 credits from:

JWST 201	(3)	Jewish Law
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 576	(3)	Jewish Family Law

3.10.29.5 Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2

JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan

JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature

JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

3.10.29.6 Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies concentrations are placed into the category "Complementary Courses".

Complementary Courses (36 credits)

36 credits in Jewish Studies of which 24 are normally taken at the 300 level or above, selected as described below. Consultation with an adviser is strongly recommended.

Jewish History

6 credits (minimum) in the history of Jewish civilization to be chosen from:

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

JWST 217 (3) Jewish Studies 3: 1000 - 2000

Jewish Language

6 credits reflecting an advanced level of competence in either Hebrew or Yiddish chosen from the following:

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Or, any course at the 400 level except for JWST 404 and JWST 405.

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship

JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew

JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah

JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

3.10.29.7 Bachelor of Arts (B.A.) - Honours Jewish Studies (60 credits)

Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (9 credits)

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 491	(3)	Honours Thesis 1
JWST 492	(3)	Honours Thesis 2

Complementary Courses (51 credits)

51 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-18 credits of a Jewish language. Each Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Hebrew language courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish language courses are found under the heading "Language and Literature - Yiddish."

Areas of Jewish Studies

27-45 credits of courses chosen to reflect progress to the advanced level in two of the areas of study: Biblical Studies, Rabbinic Studies, Literature (Hebrew, Yiddish), Jewish Thought, Jewish History, Modern Jewish Studies, and East European Studies.

Hebrew literature courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish literature courses are found under the heading "Language and Literature - Yiddish".

Students should select their courses in consultation with a program adviser.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000

HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City

JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement

HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

3.10.29.8 Bachelor of Arts (B.A.) - Joint Honours Component Jewish Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (9 credits)

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 491	(3)	Honours Thesis 1
JWST 492	(3)	Honours Thesis 2

Complementary Courses (27 credits)

27 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-6 credits of a Jewish language. Each Joint Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2

Areas of Jewish Studies

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible

JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature

JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1

JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1

JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

3.10.29.9 Jewish Studies (JWST) Related Programs

3.10.29.9.1 Jewish Teacher Training Program

Established in 1973 in the Faculty of Education in conjunction with the Department of Jewish Studies, this program prepares students to teach at the elementary and secondary school levels.

Students are encouraged to acquire a strong general background in Bible, Jewish liturgy, traditions, and history, prior to registering in the program. Students lacking the ability to teach in Hebrew should consider spending a term at an Israeli university.

Further information can be obtained by contacting the Director, Dr. Eric Caplan, at 514-398-6544; by consulting *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Education* > *Undergraduate* > [section 5.9.22: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Jewish Studies \(120 credits\)](#); and at www.mcgill.ca/edu-jttp.

3.10.30 Languages, Literatures, and Cultures (LLCU)

3.10.30.1 Location

688 Sherbrooke Street West, Suite 425
Montreal, Quebec H3A 3R1

Telephone: 514-398-3650

Fax: 514-398-1748

Email: info.llcu@mcgill.ca

Website: www.mcgill.ca/langlitcultures

3.10.30.2 About Languages, Literatures, and Cultures

The Department of Languages, Literatures, and Cultures is dedicated to fostering a critical understanding of European and Latin American cultures in a global context. It offers courses and programs in German, Italian, Russian, and Spanish languages, literatures, thought, cinemas, and cultures, immersing students in the study of national traditions while encouraging transnational approaches and cultural plurality.

The Department seeks to broaden undergraduate students' liberal arts background. Its goal is to enable students to develop communicative skills in at least one target language and to provide critical tools to understand the complexities of other cultural traditions. The skills acquired are invaluable for careers in business, in government, in all the professions, in the media, as well as in cultural and literary fields.

LLC programs in German, Hispanic, Italian, and Russian Studies offer a vibrant research environment, combining the rigour of traditional philological inquiry with a range of other theoretical and methodological approaches, many of them informed and/or creatively challenged by broader transnational and interdisciplinary perspectives. The Department is committed to international standards of excellence in student training.

Students who envision graduate studies upon completion of the B.A. are strongly advised to pursue a program of Honours or Joint Honours (Honours students must submit their thesis by March 15). Although the Major and Minor concentrations form an important part of the multi-track B.A. in Arts, this general degree does not provide the specialized training called for by most graduate programs in the humanities and social sciences.

Students may need to obtain Departmental approval to register for language courses and are strongly urged to consult with the Department for advice/approval of their program plans. A placement test is available and may be booked before the start of term with the Language Adviser of the respective area of study. Please visit the *Advising* section of our web site at: www.mcgill.ca/langlitcultures.

Students may begin at the intermediate or advanced level in their first year if they have taken approved courses in high school or in CEGEP or through McGill Summer Studies. Please consult with our advisers for more information.

The Department of Languages, Literatures, and Cultures offers undergraduate programs and concentrations, which permit students to pursue a variety of intellectual and pre-professional options.

3.10.30.3 German Studies

Undergraduate Programs

Adviser: Paul Peters
688 Sherbrooke Street West, Room 481
Telephone: 514-398-5050

- Minor Concentration in German Language (Expandable)
- Minor Concentration in German Literature (Expandable)
- Minor Concentration in German Literature and Culture in Translation
- Major Concentration in German Language and Literature
- Major Concentration in German Literature and Culture
- Major Concentration in Contemporary German Studies
- Honours in German Studies
- Joint Honours Program-German Studies Component

3.10.30.4 Hispanic Studies

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department. Application forms are available from the Student Exchange Officer in Enrolment Services, Service Point, 3415 McTavish Street, Montreal, Quebec, H3A 0C8.

Undergraduate Programs

Adviser: José Jouve-Martin
 688 Sherbrooke Street West, Room 379
 Telephone: 514-398-6657

- Minor Concentration in Hispanic Languages (Expandable)
- Minor Concentration in Hispanic Literature and Culture (Expandable)
- Major Concentration in Hispanic Languages
- Major Concentration in Hispanic Literature and Culture
- Honours Program in Hispanic Studies
- Joint Honours Program in Hispanic Studies



Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited toward the Minor.

3.10.30.5 Italian Studies

Undergraduate Programs

Adviser: Matteo Soranzo
 688 Sherbrooke, Room 429
 Telephone: 514-398-2833

- Minor Concentration in Italian Studies (Expandable)
- Major Concentration in Italian Studies
- Honours Program in Italian Studies
- Joint Honours Program in Italian Studies

3.10.30.6 Russian and Slavic Studies

Undergraduate Programs

Adviser: Laura Beraha
 688 Sherbrooke, Room 335
 Telephone: 514-398-2802

- Minor Concentration in Russian Studies (Expandable)
- Minor Concentration in Russian Culture
- Major Concentration in Russian Studies
- Honours Program in Russian Studies
- Joint Honours Program in Russian Studies

3.10.30.7 Languages, Literatures, and Cultures (LLC) Faculty

Chair

Karin Bauer

Directors of Undergraduate Studies/Advisers

Karin Bauer; Major Concentrations in Contemporary German Studies

Laura Beraha; Russian Studies

Lucienne Kroha / Matteo Soranzo; Italian Studies

Fernanda F. Macchi; Hispanic Studies

Paul Peters; German Studies

Emeritus Professors

Peter M. Daly; B.A.(Brist.), Ph.D.(Zur.)

Pamela D. Stewart; B.A.(Montr.), M.A.(McG.), F.R.S.C.

Professors

Jesús Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)

Paul Peters; B.A.(Manit.), Ph.D.(Free Univ., Berlin)

Kay M. Sibbald; M.A.(Cant.), M.A.(Liv.), Ph.D.(McG.)

Associate Professors

Karin Bauer; M.A., Ph.D.(Wash.)

Laura Beraha; B.A., M.A., Ph.D.(McG.)

Eugenio Bolongaro; B.A., L.L.B.(Br. Col.), Ph.D.(McG.)

David A. Boruchoff; A.B., A.M., Ph.D.(Harv.)

Michael Cowan; B.A., Ph.D.(Calif., Berk.)

Amanda Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)

José Jouve-Martin; Lic.Phil.(Madrid), Ph.D.(G'town)

Lucienne Kroha; B.A., M.A.(McG.), Ph.D.(Harv.)

Fernanda Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)

Lyudmila Parts; M.A., Ph.D.(Col.)

Andrew Piper; B.A.(Princ.), Ph.D.(Col.)

Stéfan Sinclair; B.A.(Br. Col.), Ph.D.(Qu.)

Assistant Professors

Luis Alonso-Ovalle; Lic.(Oviedo), M.A., Ph.D.(Mass) (*joint appt. with Linguistics*)

Anna Berman; M.A., Ph.D.(Princ.)

Luca Cottini; M.A., Ph.D.(Harv.)

Stephanie Posthumus; B.A.(Calvin), Ph.D.(West.)

Matteo Soranzo; M.A., Ph.D.(Wisc.)

Faculty Lecturers

Sandra Barriales-Bouche; M.A., Ph.D.(Mass.)

Lucia Chamanadjian; M.A.(Car.)

Anny Guimont; M.A.(Montr.)

Sun-Young Kim; M.A., Ph.D.(Mich.)

Oludmila Klimanova; M.A., Ph.D.(Iowa)

Maria-Teresa Mascaro; M.S.(G'town)

Enrica Quaroni; B.A., Ph.D.(McG.)

Sylvia Rieger; M.A.(Regensburg), M.A.(Vanderbilt), Ph.D.(Wash., Seattle)

Adjunct Professors - Italian Studies

Dario Brancato (*C'dia*)

Tobias F. Gittes (*Liberal Arts College, C'dia*)

Silvestra Mariniello (*Histoire de l'art et d'Études cinématographiques, Montr.*)

Rosanna Maule (*C'dia*)

Viva Paci (*UQAM*)

3.10.30.8 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

This program may be expanded to the Major Concentration German Language and Literature.

Complementary Courses (18 credits)

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.

Note: Beginners' and Intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

GERM 200	(6)	German Language, Intensive Beginners
GERM 202D1	(3)	German Language, Beginners'
GERM 202D2	(3)	German Language, Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 307D1	(3)	German Language - Intermediate
GERM 307D2	(3)	German Language - Intermediate
GERM 325	(6)	German Language - Intensive Advanced
GERM 336	(3)	German Language, Media and Culture
GERM 341	(3)	Essay Writing
GERM 342	(3)	Translation
GERM 345	(3)	Business German 1
GERM 346	(3)	Business German 2

3.10.30.9 Bachelor of Arts (B.A.) - Minor Concentration German Literature (18 credits)

This is offered as a special program for students who already possess the necessary language skills before coming to McGill, or have acquired the competence by completing the intensive sequence (GERM 200 and GERM 300) as elective courses in their first year.

This program may be expanded to the Major Concentration German Language and Literature.

Required Course (6 credits)

GERM 325	(6)	German Language - Intensive Advanced

Complementary Courses (12 credits)

12 credits of courses in German literature or culture, given in German, such as:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 352	(3)	German Literature - 19th Century 3
GERM 353	(3)	19th Century Literary Topics
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 380	(3)	18th Century German Literature
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era
GERM 511	(3)	Middle High German Literature
GERM 580	(3)	Topics in 18th Century Literature

3.10.30.10 Bachelor of Arts (B.A.) - Minor Concentration German Literature and Culture in Translation (18 credits)

This program may not be expanded to a Major concentration.

Complementary Courses (18 credits)

18 credits of courses in German literature or culture in translation, such as:

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	German Culture: Gender and Society
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 382	(3)	Faust: Chapbook to Horror Film
GERM 580	(3)	Topics in 18th Century Literature

3.10.30.11 Bachelor of Arts (B.A.) - Major Concentration German Studies - Language and Literature (36 credits)

Required Courses (18 credits)

Students who have advanced standing equivalency for any of the language courses below will substitute more advanced courses in language, culture or literature.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

GERM 200	(6)	German Language, Intensive Beginners
GERM 202D1	(3)	German Language, Beginners'
GERM 202D2	(3)	German Language, Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 307D1	(3)	German Language - Intermediate
GERM 307D2	(3)	German Language - Intermediate
GERM 325	(6)	German Language - Intensive Advanced

Complementary Courses (18 credits)

18 credits of courses in literature distributed across different periods selected as follows:

20th Century Literature

at least 3 credits from:

GERM 357	(3)	German Culture in European Context
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 364	(3)	German Culture: Gender and Society

GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 382	(3)	Faust: Chapbook to Horror Film

Classicism or Romanticism

at least 3 credits from:

GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era
GERM 580	(3)	Topics in 18th Century Literature

Other Periods

at least 3 credits from:

GERM 352	(3)	German Literature - 19th Century 3
GERM 353	(3)	19th Century Literary Topics
GERM 380	(3)	18th Century German Literature
GERM 511	(3)	Middle High German Literature

Additional German Studies

9 credits selected from any of the literature courses above not already taken or from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies

Note: Courses on German literature or culture given in English may be substituted for any courses in the lists, to a maximum of 6 credits.

3.10.30.12 Bachelor of Arts (B.A.) - Major Concentration German Studies - Literature and Culture (36 credits)

Complementary Courses (36 credits)

All German literature courses given in German require the linguistic competence acquired in GERM 325 or its equivalent. Such equivalence will be established by the Program Adviser.

36 credits selected as follows:

9 credits from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature

15 credits from:

GERM 352	(3)	German Literature - 19th Century 3

GERM 353	(3)	19th Century Literary Topics
GERM 380	(3)	18th Century German Literature
GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era
GERM 511	(3)	Middle High German Literature

12 credits from:

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 355	(3)	Nietzsche and Wagner
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	German Culture: Gender and Society
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 382	(3)	Faust: Chapbook to Horror Film
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies

3.10.30.13 Bachelor of Arts (B.A.) - Major Concentration Contemporary German Studies (36 credits)

The Major Concentration Contemporary German Studies is open to students with a sound knowledge of German as acquired in GERM 325 or equivalent. Those students who do not have the required competence in German may take the Major Concentration Contemporary German Studies only if they also take the Minor Concentration German Language. Proficiency, equivalency and placement will be determined by the Program Adviser.

Required Courses (9 credits)

GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
HIST 234	(3)	German History to 1648
HIST 235	(3)	German History since 1648

Complementary Courses (27 credits)

27 credits selected as follows:

- A) 6 credits from courses in German Literature and Culture
- B) 12 credits from courses in German Society
- C) 9 credits from courses in German Studies

A) German Literature and Culture

6 credits in German Literature and Culture selected from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 357	(3)	German Culture in European Context
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought

GERM 368	(3)	Fin-de-Siècle Vienna

B) German Society

12 credits in German Society chosen from three disciplines including History, or from two disciplines excluding History. Courses are to be selected from the lists below:

Economics

ECON 345	(3)	The International Economy since 1914
ECON 423	(3)	International Trade
ECON 424	(3)	International Payments

Management

BUSA 391	(3)	International Business Law
MGCR 382	(3)	International Business
MGPO 383	(3)	International Business Policy
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

Political Science

POLI 212	(3)	Government and Politics - Developed World
POLI 328	(3)	Comparing European Democracies
POLI 331	(3)	Politics in East Central Europe
POLI 344	(3)	Foreign Policy: Europe
POLI 357	(3)	Politics: Contemporary Europe
POLI 431	(3)	Nations and States/Developed World

Sociology

SOCI 330	(3)	Sociological Theory
SOCI 354	(3)	Dynamics of Industrial Societies

C) German Studies

9 credits in German Studies selected from the GERM courses below or from any advanced course in German language or German literature (taught in German or in translation) or from the lists of courses on German Society above. Other courses offered by Art History, Geography, Jewish Studies, Music, Philosophy, etc. can be substituted with permission of the Program Adviser.

GERM 345	(3)	Business German 1
GERM 346	(3)	Business German 2

Courses may also be chosen from the lists below.

Jewish Studies

JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature

Philosophy

PHIL 367	(3)	19th Century Philosophy
PHIL 474	(3)	Phenomenology

3.10.30.14 Bachelor of Arts (B.A.) - Honours German Studies (60 credits)

The Honours German Studies consists of 60 credits in German. Literature courses provide an introduction to the major periods from the Middle Ages to the present.

Admission to the Honours program requires departmental approval. Students may begin this program in their first year. Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

Required Courses (42 credits)

GERM 200	(6)	German Language, Intensive Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 325	(6)	German Language - Intensive Advanced
GERM 352	(3)	German Literature - 19th Century 3
GERM 360	(3)	German Literature 1890 to 1918
GERM 363	(3)	German Postwar Literature
GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 511	(3)	Middle High German Literature
GERM 575	(6)	Honours Thesis

With permission from the adviser, students with advanced standing in German language will replace language courses for more advanced courses in language, culture or literature.

Complementary Courses (18 credits)

18 credits selected as follows:

12 credits from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 353	(3)	19th Century Literary Topics
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 380	(3)	18th Century German Literature
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
GERM 580	(3)	Topics in 18th Century Literature

In the event that there are not enough courses offered in German, substitution with courses from the list below is allowed only with permission of the Adviser.

6 credits from:

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 336	(3)	German Language, Media and Culture

GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	German Culture: Gender and Society
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 382	(3)	Faust: Chapbook to Horror Film
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02

Other suitable courses in the Department or in other related disciplines and departments may be taken with the approval of the Adviser.

3.10.30.15 Bachelor of Arts (B.A.) - Joint Honours Component German Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (21 credits)

GERM 200	(6)	German Language, Intensive Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 325	(6)	German Language - Intensive Advanced
GERM 570	(3)	Joint Honours Thesis

With permission of the Adviser, students with advanced standing in German language will replace language courses for more advanced courses in language, culture or literature.

Complementary Courses (15 credits)

15 credits selected from 400- to 500-level German literature and culture courses, from at least three centuries, with the approval of the Adviser.

3.10.30.16 Bachelor of Arts (B.A.) - Minor Concentration Hispanic Languages (18 credits)

This program may be expanded to the Major Concentration Hispanic Studies - Languages.

Complementary Courses (18 credits)

18 credits from the list of courses below:

Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited toward the Minor.

Students with advanced standing in the language will replace language courses with more advanced courses in language, culture, or literature at the 200 level or above, selected from Departmental offerings.

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

HISP 310	(3)	How Spanish Works
HISP 380	(3)	Global Spanish
HISP 390	(3)	Spanish Through the Centuries
HISP 410	(3)	Investigating Spanish Grammar

3.10.30.17 Bachelor of Arts (B.A.) - Minor Concentration Hispanic Literature and Culture (18 credits)

This program may be expanded to the Major Concentration Hispanic Studies - Literature and Culture.

Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited towards the Minor.

Students with advanced standing in the language will replace language courses with more advanced courses in language, culture, or literature at the 200 level or above, selected from Departmental offerings.

Required Courses (6 credits)

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Complementary Courses (12 credits)

200 Level - Literature

6 credits from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2

300 Level or Above - Literature and Culture

6 credits from:

HISP 321	(3)	Spanish Literature - 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America
HISP 438	(3)	Topics: Spanish Literature

HISP 439	(3)	Topics: Spanish-American Literature
HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque
HISP 505	(3)	Seminar in Hispanic Studies 01

3.10.30.18 Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Languages (36 credits)

Complementary Courses (36 credits)

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Survey of Literature

6 credits in Survey of Literature from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2

300-Level or Above Hispanic Literature

12-30 credits in Hispanic literature at the 300 level or above, of which at least 6 credits must be in literature of the pre-1700 period, from:

HISP 310	(3)	How Spanish Works
HISP 321	(3)	Spanish Literature - 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America

HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 380	(3)	Global Spanish
HISP 410	(3)	Investigating Spanish Grammar
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Spanish-American Literature
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1700 Literature

At least 6 credits from:

HISP 390	(3)	Spanish Through the Centuries
HISP 437	(3)	Viceregal Spanish America
HISP 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

3.10.30.19 Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Literature and Culture (36 credits)

Required Courses (18 credits)

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes

Complementary Courses (18 credits)

18 credits selected as follows:

300-Level or Above Hispanic Literature

At least 15 credits in Hispanic literature at the 300 level or above, of which at least 3 credits must be in literature of the pre-1700 period, from:

HISP 310	(3)	How Spanish Works
HISP 321	(3)	Spanish Literature - 18th Century

HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 380	(3)	Global Spanish
HISP 410	(3)	Investigating Spanish Grammar
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Spanish-American Literature
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1700 Literature

At least 3 credits from:

HISP 390	(3)	Spanish Through the Centuries
HISP 437	(3)	Viceregal Spanish America
HISP 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

3.10.30.20 Bachelor of Arts (B.A.) - Honours Hispanic Studies (60 credits)

Prerequisite for admission into Honours Hispanic Studies: a first-year Spanish course with a final grade of B+. Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Students must take an 18-credit Minor concentration in another area.

Required Courses (24 credits)

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes

HISP 490D1	(3)	Honours Thesis
HISP 490D2	(3)	Honours Thesis

Complementary Courses (36 credits)

36 credits with at least 6 credits selected from:

HISP 437	(3)	Viceregal Spanish America
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

All remaining credits may be selected from courses given in Spanish in the Department at or above the intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

3.10.30.21 Bachelor of Arts (B.A.) - Joint Honours Component Hispanic Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (12 credits)

HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes
HISP 490D1	(3)	Honours Thesis
HISP 490D2	(3)	Honours Thesis

Complementary Courses (24 credits)

24 credits selected as follows:

Survey of Literature

At least 6 credits from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2

400-Level

At least 6 credits from the 400-level courses below:

HISP 437	(3)	Viceregal Spanish America
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

All remaining credits may be selected from courses given in Spanish in the Department above the Intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

3.10.30.22 Bachelor of Arts (B.A.) - Minor Concentration Italian Studies (18 credits)

This program may be expanded to the Major Concentration Italian Studies.

Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

Students with advanced standing in the language must replace language courses with courses in Groups B and C.

6-18 credits from Group B - Courses Taught in Italian and Group C - Courses Taught in English.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Literature and Society 1945-1989
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

3.10.30.23 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses

- Students with no knowledge of the Italian language must take 12 credits in language.

- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1/ITAL 210D2, ITAL 215D1/ITAL 215D2, or ITAL 216.

- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

0-9 credits chosen from 200-level courses in Group B - Courses Taught in Italian.

12-36 credits chosen from courses at the 300 level and above, of which at least 3 credits must be at the 400 level or above, in Group B - Courses Taught in Italian.

0-6 credits from Group C - Courses Taught in English.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood

ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Literature and Society 1945-1989
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

3.10.30.24 Bachelor of Arts (B.A.) - Honours Italian Studies (54 credits)

Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to the Honours program in Italian requires Departmental approval. Students wishing to register should consult with the Department as early as possible. Qualified students may begin Honours in Italian Studies in the first year, instead of the second, at the discretion of the Department.

Required Courses (6 credits)

One of the two honours thesis courses below:

ITAL 471D1	(3)	Honours Thesis

ITAL 471D2	(3)	Honours Thesis
ITAL 472	(6)	Honours Thesis (Intensive)

Complementary Courses (48 credits)

48 credits, 9 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

30-48 credits from Group B – Courses Taught in Italian.

0-9 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"

ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	(3)	Mediterranean Society and Culture
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 208	(3)	Introduction to Roman Literature
CLAS 404	(3)	Classical Tradition
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
HIST 345	(3)	History of Italian Renaissance
HIST 380	(3)	Western Europe: The Middle Ages
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics: Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini
POLI 414	(3)	Society and Politics in Italy

3.10.30.25 Bachelor of Arts (B.A.) - Joint Honours Component Italian Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to Joint Honours requires departmental approval. Students wishing to register in the program should consult with the Department as early as possible. Students may register for Joint Honours in the first year, instead of the second year, if in the opinion of the departments they are found to be qualified.

Required Courses (6 credits)

ITAL 355	(3)	Dante and the Middle Ages
ITAL 470	(3)	Joint Honours Thesis

Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature

ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	(3)	Mediterranean Society and Culture
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 208	(3)	Introduction to Roman Literature
CLAS 404	(3)	Classical Tradition
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
HIST 345	(3)	History of Italian Renaissance
HIST 380	(3)	Western Europe: The Middle Ages
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics: Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini
POLI 414	(3)	Society and Politics in Italy

3.10.30.26 Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1

RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

* RUSS 215 is not open to students who have taken RUSS 210 and RUSS 211.

** RUSS 316 is not open to students who have taken RUSS 310 and RUSS 311.

*** RUSS 415 is not open to students who have taken RUSS 400 and RUSS 401.

3.10.30.27 Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)

The Minor Concentration Russian Culture is designed primarily as an adjunct to area studies and/or programs in the humanities or social sciences. There are no Russian language requirements.

This program may be expanded into a Major Concentration in Russian.

Complementary Courses (18 credits)

Courses offered by LLC may be accepted subject to approval by the Department.

18 credits selected with the following specifications:

At least 6 credits from Group A

6-12 credits from Group B

Group A

At least 6 credits from:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature in Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

Group B

6-12 credits from:

RUSS 229	(3)	Introduction to Russian Folklore
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama
RUSS 390	(3)	Special Topics in Russian
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde

RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

3.10.30.28 Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211.

**RUSS 316 is not open to students who have taken RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature in Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama
RUSS 390	(3)	Special Topics in Russian
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

3.10.30.29 Bachelor of Arts (B.A.) - Honours Russian (60 credits)

The Honours Russian program is for students intending to pursue graduate studies or advanced careers in the field. Students must complete 60 credits in the program, and according to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Students who have acquired language competency elsewhere will replace lower-level courses with upper-level courses. A total of 6 credits may be taken in courses offered by other departments in the Faculty; these are listed at the end of this section. Students are particularly encouraged to select from LLC course offerings.

For admission into the Honours program and approval of all course selections, students must regularly consult with an academic adviser in the Department.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

Group A: Required Courses (12 credits)

RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2
RUSS 490*	(3)	Honours Seminar 01
RUSS 491*	(3)	Honours Seminar 02

* Note: Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Complementary Courses (48 credits)

Group B: Russian Language

0 - 24 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215	(6)	Elementary Russian Language Intensive 1
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316	(6)	Intermediate Russian Language Intensive 2
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2

Note: Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group C or D.

Group C: 200 level

9 - 12 credits to be chosen from:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature in Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore

Group D: 300 and 400 level

12 - 33 credits to be chosen from:

RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama
RUSS 390	(3)	Special Topics in Russian
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Note: Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Group E: LLC and Faculty of Arts

0 - 6 credits to be chosen from the following or their equivalent:

ANTH 303	(3)	Ethnographies of Post-socialism
ECON 331	(3)	Economic Development: Russia and USSR
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 236	(3)	Russia from 1801 to 1991
HIST 306	(3)	East Central Europe Since 1944
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 326	(3)	Russia from 1905 to Present
HIST 406	(3)	Petrine and Catherinian Russia
HIST 446	(3)	Russian Thought to 1825
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
JWST 303	(3)	The Soviet Jewish Experience
POLI 329	(3)	Russian and Soviet Politics
POLI 331	(3)	Politics in East Central Europe
POLI 419	(3)	Transitions from Communism
SOCI 455	(3)	Post-Socialist Societies

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

Students are particularly encouraged to select from the growing options available under the LLC course offerings; these are subject to Departmental approval.

3.10.30.30 Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable). Twelve credits in Russian and 12 credits in the cooperating department are normally taken each year.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

Prior to registering for each Joint Honours component, students must see advisers in the respective departments for approval of their selection. Departmental advisers will only approve combinations that are feasible, given the nature of the research project that would be involved. Students who neglect to obtain prior approval may jeopardize their graduation.

3.10.31 Latin-American and Caribbean Studies (LACS)

3.10.31.1 Location

Institute for the Study of International Development
Peterson Hall, Room 126
3460 McTavish Street
Montreal, Quebec H3A 0E6

Telephone: 514-398-4804
Fax: 514-398-2786
Email: ids@mcgill.ca

Website: www.mcgill.ca/isid

Adviser: Lisa Stanischewski

3.10.31.2 About Latin-American and Caribbean Studies

Established in 1971, the interdisciplinary program in Latin-American and Caribbean Studies offers a comprehensive array of courses on the peoples, cultures, history, literature, politics, economy, and geography of Latin America and the Caribbean, providing students with a broad-based understanding of this geographic region, and with the language and research skills required for advanced scholarship. The program in Latin-American and Caribbean Studies encourages the free exchange of ideas and perspectives in order to foster an environment suitable for serious reflection and critical analysis.

Students in the program in Latin-American and Caribbean Studies are encouraged to consider the opportunities for foreign study and research made available by bilateral exchange agreements with leading universities in the Spanish and Portuguese-speaking world. These exchanges are open to all members of the McGill University community. Further information may be obtained from the Student Exchange and Study Abroad Office, Service Point, 3415 McTavish Street, Montreal, QC, H3A 0C8.

An agreement of cooperation with the Center for Latin American Studies at Georgetown University (Washington, D.C.) permits Honours students in Latin-American and Caribbean Studies at McGill to count a portion of their undergraduate coursework toward the degree requirements for Georgetown's M.A. in Latin American Studies, thus permitting completion of the M.A. in one calendar year. See the Program Adviser for additional information.

3.10.31.3 Undergraduate Degree Programs

The program in Latin-American and Caribbean Studies offers an interdisciplinary Honours degree and an interdisciplinary Major concentration as part of the Multi-track B.A. in Arts. Given the constraints of the Multi-track B.A. and our belief that an interdisciplinary program of area studies must include within it the language(s) used by the peoples and cultures under examination, there is at present no interdisciplinary Minor concentration in Latin-American and Caribbean Studies.

3.10.31.4 Latin-American and Caribbean Studies (LACS) Faculty

Program Committee Chair

J. Jouve-Martin; Lic.Phil.(Madrid), Ph.D.(G'town) (*Languages, Literatures, and Cultures*)

Program Committee

A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.) (*Languages, Literatures, and Cultures*)

E. Kohn; B.A.(Oberlin), M.A., Ph.D.(Wisc.-Madison) (*Anthropology*)

C. LeGrand; B.A.(Reed), M.A., Ph.D.(Stan.) (*History and Classical Studies*)

K. Norget; B.A.(Vic., BC), M.Phil., D.Phil.(Cant.) (*Anthropology*)

P. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.) (*Political Science*)

D. Studnicki-Gizbert; BAC Spécialisé(Montr.), Ph.D.(Yale) (*History and Classical Studies*)

3.10.31.5 Bachelor of Arts (B.A.) - Major Concentration Latin American Studies (36 credits)

Required Courses (18 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Spanish-American Literature 1
HISP 244*	(3)	Survey of Spanish-American Literature 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
POLI 319	(3)	Politics of Latin America

Complementary Courses (18 credits)

18 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements:

- 1) Courses from at least two disciplines or departments must be included.
- 2) At least 6 of the 18 credits must be at the 300 level or above.

3) No more than 6 credits in Spanish or Portuguese language (HISP 210D1/D2, HISP 218, HISP 219, HISP 220D1/D2, HISP 222) shall count for the Major concentration.

Complementary Course List

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture & Society

Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310	(3)	Development and Livelihoods
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

Hispanic Studies

HISP 202	(6)	Portuguese Language: Beginners
HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 302	(3)	Hispanic Literature - English Translation 2
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story

HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Natives of the Americas
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 409	(3)	Themes in Latin American History 2
HIST 419	(3)	Central America
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters

Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America

3.10.31.6 Bachelor of Arts (B.A.) - Honours Latin American and Caribbean Studies - Area (60 credits)

The Honours Latin American and Caribbean Studies - Area option is designed to meet the needs of students who plan to attend graduate or professional school upon completion of the B.A. Both the Area option and the Thematic option provide a comprehensive interdisciplinary understanding of Latin America and the Caribbean, upon which more specialized coursework and research may be based. The Area option, with its disciplinary clusters, is recommended for students who envision graduate study in a specific discipline, such as History or Political Science.

While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, in addition, students pursuing the Honours Latin-American and Caribbean Studies - Area option must normally maintain a B+ (3.30) average in all program courses. Students must also meet all additional Faculty of Arts requirements for graduation with Honours.

Required Courses (21 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Spanish-American Literature 1
HISP 244*	(3)	Survey of Spanish-American Literature 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (39 credits)

39 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements.

1) 12 credits must be taken in Spanish or Portuguese.

2) 27 additional credits on Latin America and the Caribbean (exclusive of language courses).

3) A minimum of 15 of these 27 credits must be taken in one of the following disciplinary clusters, which may also include up to 6 credits of theoretical and/or methodological courses of particular relevance to the student's research interests: Cluster 1 - Literature and Culture; Cluster 2 - Economics, History, and Political Science; Cluster 3 - Anthropology and Geography.

Complementary Course List

Hispanic Studies - Languages

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate

Cluster 1: Literature and Culture - Hispanic Studies

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 302	(3)	Hispanic Literature - English Translation 2
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

Cluster 2: Economics, History, and Political Science

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Natives of the Americas
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 409	(3)	Themes in Latin American History 2
HIST 419	(3)	Central America
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History

HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America

Cluster 3: Anthropology and Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture & Society
GEOG 310	(3)	Development and Livelihoods
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

3.10.31.7 Bachelor of Arts (B.A.) - Honours Latin American and Caribbean Studies - Thematic (60 credits)

The Honours Latin-American and Caribbean Studies - Thematic option permits highly motivated students to combine the study of Latin America and the Caribbean with a theme or intellectual focus whose roots extend beyond the geographic confines of this area, and for which a high level of methodological and/or theoretical expertise is required.

Themes of study may include, but are not limited to: ethnography and ethnohistory; the age of European expansion; transnationalism; the concepts and practice of law and justice; nationalism and nation-building; ecology and the management of human and natural resources.

While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, in addition, students pursuing the Honours Latin-American and Caribbean Studies - Thematic option must normally maintain a B+ (3.30) average in all program courses. Students must also meet all additional Faculty of Arts requirements for graduation with Honours.

Required Courses (21 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Spanish-American Literature 1
HISP 244*	(3)	Survey of Spanish-American Literature 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (39 credits)

39 credits selected in consultation with the Program Adviser with the following requirements.

- 1) 12 credits must be taken in Spanish or Portuguese (see the courses under the heading "Hispanic Studies" in the Complementary Course List).
- 2) 12 credits on Latin America and the Caribbean (exclusive of language courses) selected from the Complementary Course List.
- 3) 15 credits from outside the Complementary Course List, within a coherent theme of specialization.

Complementary Course List

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture & Society

Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310	(3)	Development and Livelihoods
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

Hispanic Studies

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 302	(3)	Hispanic Literature - English Translation 2
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America

HISP 453	(3)	20th Century Spanish-American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Natives of the Americas
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 409	(3)	Themes in Latin American History 2
HIST 419	(3)	Central America
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters

Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America

3.10.32 Liberal Arts

3.10.32.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec
H3A 3R1

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3.10.32.2 About Liberal Arts

The Liberal Arts Program represents a contemporary approach to the traditional concept of a broad, non-specialist undergraduate formation in the humanities that is tailored to the environment of a research-intensive university. The program emphasizes a classical liberal arts education, yet approaches the liberal arts from a global perspective emphasizing diversity and difference, and providing new ways of engaging the liberal arts.

The program exposes students to texts from, and histories of, a wide range of cultures, societies, and different historical periods. Students will be able to choose from four intellectual streams: languages and literatures; the fine arts and their histories; ethics and social thought; and history and the liberal arts. Students will be expected to satisfy distribution requirements across regions of the world and historical periods. Instruction in a language other than English will also be a requirement.

The Liberal Arts Program affirms the Faculty of Arts' commitment to the humanities and its core mission to foster cross-disciplinary perspectives, diverse and engaged communities, and critical thinking by providing the tools for critical inquiry and teaching effective communication skills.

For further information, please contact the Director, Liberal Arts Program: Professor E. Bolongaro (514-398-4400, ext. 09454).

3.10.32.3 Bachelor of Arts (B.A.) - Major Concentration Liberal Arts (36 credits)

Currently under review. Admissions will not be accepted for the 2013–2014 academic year.

The Major Concentration in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students will have an opportunity to learn a language other than English, as well as history, literature and art, ethics, philosophy, and social thought. They will also be exposed to materials from a range of cultures and societies as well as from different historical periods.

Four intellectual streams will be available to choose from: languages and literature; the fine arts and their histories; ethics and social thought; and history and the liberal arts. Students will be expected to satisfy distribution requirements across regions of the world and historical eras.

At least 15 credits must be from the 300 level or above, at least 6 credits at the 400 level or above.

No more than 18 credits may be from one Humanities discipline.

Complementary Courses (36 credits)

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

21 credits to be chosen as follows:

12 credits in the study of a language other than English or French;

3 credits from a core seminar;

6 credits from one of the following lists:

List A

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 240	(3)	Political Philosophy 1
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

List B

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 209	(3)	Introduction to Ancient Art and Architecture
EAST 215	(3)	Introduction to East Asian Art

MUSIC: up to 6 credits of Music courses to be selected in consultation with the Program Director.

List C

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
FREN 250	(3)	Littérature française avant 1800
GERM 259	(3)	Introduction to German Literature 1
HISP 241	(3)	Survey of Spanish Literature 1
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

List D

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea
HISP 225	(3)	Hispanic Civilization 1
HIST 200	(3)	Introduction to African History
HIST 204	(3)	History of Great Britain to 1688
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 208	(3)	Introduction to East Asian History
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 234	(3)	German History to 1648
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth

Complementary Courses: Streams (15 credits)

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

At least 15 credits in one of the four specialized streams.

NOTE: Distribution Requirement:

Every student must take at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6 credits in coursework primarily emphasizing texts or history from the period 1500-1900. Every student must also take at least 6 credits in coursework primarily emphasizing Africa and/or Asia, including the Middle East, and at least 6 credits in coursework primarily emphasizing Europe and/or the Americas or Australasia. Any given course may meet both a period distribution requirement and a geographic distribution requirement.

Stream 1. Languages and literature

- Any course in Arts at the 200 level or higher dedicated to teaching a language other than English, or taught in a language other than English
- Any course at the 200 level or higher in French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), or Russian Studies (RUSS)
- Any course in Classics (CLAS) that is labeled as Classical Languages (LA), Classical Literature (LI), or Modern Greek (MG) as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/classics/teaching/thematic-areas>
- Any course in East Asian Studies (EAST) on the department's course list for East Asian Language courses
- Any course in Jewish Studies (JWST) on the department's course list for Hebrew Language and Literature, Yiddish Language and Literature, or Biblical Studies
- Any course at the 200 level or above in English (ENGL) on the department's course list for the Literature Option as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/english/undergrad/handbook/major>

AFRI 401	(3)	Swahili Language and Culture
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 453	(3)	Topics: Chinese Literature

EAST 490	(3)	Confucius and the Classics
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 585	(3)	Arab Women's Literature
RELG 203	(3)	Bible and Western Culture
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

Stream 2. The fine arts and their histories

- Any course at the 200 level or above in Art History and Communication Studies labeled as Art History (ARTH)

- Any course at the 200 level or above in MUAR (Music-Arts Faculty) or the Schulich School of Music labeled MUTH (Music Theory and Analysis) or MUHL (Music, History and Literature)

CLAS 300	(3)	Greek Drama and the Theatre
CLAS 370	(3)	Gender in the Ancient World
EAST 215	(3)	Introduction to East Asian Art
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 357	(3)	Early Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
ENGL 230	(3)	Introduction to Theatre Studies
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 314	(3)	20th Century Drama
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 455	(3)	Religion and the Performing Arts in South India
RUSS 385	(3)	Russian Drama

Stream 3. Ethics and social thought

- All courses in Group A of the Minor Concentration in Philosophy

- All Philosophy (PHIL) and Political Science (POLI) courses in the Minor Concentration in Political Theory

CATH 315	(3)	Catholicism and Moral Culture

CATH 340	(3)	Catholic Social Thought
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ISLA 200	(3)	Islamic Civilization
ISLA 380	(3)	Islamic Philosophy and Theology
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 365	(3)	Modern Jewish Ideologies
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics

Stream 4. History and the liberal arts

- Any course from Philosophy (PHIL), lists C and D, as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/philosophy/undergraduate/requirements>

- Any course from Classics (CLAS) included on the Classical Civilizations course list as found on the department's website listing its undergraduate programs at <http://www.mcgill.ca/classics/teaching/thematic-areas>

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 521	(3)	Structure of Cities
ARCH 528	(3)	History of Housing
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
GERM 259	(3)	Introduction to German Literature 1
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 204	(3)	History of Great Britain to 1688

HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 211	(3)	American History to 1865
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 218	(3)	Modern East Asian History
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 221	(3)	United States since 1865
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 234	(3)	German History to 1648
HIST 235	(3)	German History since 1648
HIST 236	(3)	Russia from 1801 to 1991
HIST 238	(3)	Histories of Science
HIST 240	(3)	Modern History of Islamic Movements
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 307	(3)	Jews in Poland
HIST 308	(3)	Formation of Chinese Tradition
HIST 309	(3)	History of Latin America to 1825
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 318	(3)	History of Japan 1
HIST 319	(3)	The Scientific Revolution
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 323	(3)	History and Sexuality 1
HIST 325	(3)	Renaissance-Reformation Europe
HIST 328	(3)	The Qing Empire
HIST 330	(3)	Science in the Medieval West
HIST 334	(3)	History of New France
HIST 336	(3)	France, 1789 to 1914
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 343	(3)	Women in Post-Confederation Canada
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 347	(3)	History and Sexuality 2
HIST 348	(3)	China: Science-Medicine-Technology
HIST 350	(3)	Science and the Enlightenment

HIST 352	(3)	Japanese Intellectual History 2
HIST 353	(3)	History of Montreal
HIST 354	(3)	Women in Europe 1700-2000
HIST 356	(3)	Medicine in the Medieval West
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 364	(3)	Canada 1914-1945
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 405	(3)	European Cultural History 1
HIST 412	(3)	Women and Gender in Modern Britain
HIST 414	(3)	Canadian Cultural History
HIST 415	(3)	European Cultural History 2
HIST 417	(3)	British & Irish Nationalisms
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 421	(3)	Topics in Early Modern Europe
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 440	(3)	Fiction and History
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 446	(3)	Russian Thought to 1825
HIST 447	(3)	The Natural History of America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 449	(3)	Medicine in the Ancient World
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 488D1	(3)	Topics: Modern French History
HIST 488D2	(3)	Topics: Modern French History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 365	(3)	Middle East Since the 1970's
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islam in South Asia: 1707 to Present
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 361	(3)	The Shtetl: 1500-1897
JWST 366	(3)	History of Zionism
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 420	(3)	Canadian Church History
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

RUSS 224 (3) Russian 19th Century: Literary Giants 2

3.10.32.4 Bachelor of Arts (B.A.) - Honours Liberal Arts (60 credits)

Currently under review. Admissions will not be accepted for the 2013–2014 academic year.

The Honours in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students will have an opportunity to learn a language other than English, as well as history, literature and art, ethics, philosophy, and social thought. They will also be exposed to materials from a range of cultures and societies as well as from different historical periods.

Four intellectual streams will be available to choose from: languages and literature; the fine arts and their histories; ethics and social thought; and history and the liberal arts. Students will be expected to satisfy distribution requirements across regions of the world and historical eras.

At least 27 credits must be from the 300 level or above, at least 9 credits at the 400 level or above.

Honours students must maintain a program GPA of 3.30 and an overall CGPA of 3.00.

A maximum of 21 credits may be chosen from one Humanities discipline, and at least 12 credits must be taken from a second discipline.

Required Course (3 credits)

LIBA 402 (3) Seminar in Liberal Arts

Complementary Courses (57 credits)

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

21 credits, of which 12 credits must be in the study of a language other than English;

9 credits, at least 3 credits from two of the following lists:

List A

PHIL 230 (3) Introduction to Moral Philosophy 1
 PHIL 240 (3) Political Philosophy 1
 POLI 231 (3) Introduction to Political Theory
 POLI 232 (3) Modern Political Thought

List B

ARTH 204 (3) Introduction to Medieval Art and Architecture
 ARTH 205 (3) Introduction to Modern Art
 ARTH 207 (3) Introduction Early Modern Art 1400-1600
 ARTH 209 (3) Introduction to Ancient Art and Architecture
 EAST 215 (3) Introduction to East Asian Art

MUSIC: Up to 6 credits of Music courses to be selected in consultation with the Program Director.

List C

CLAS 200 (3) Introduction to Ancient Greek Literature
 CLAS 203 (3) Greek Mythology
 CLAS 208 (3) Introduction to Roman Literature
 ENGL 202 (3) Departmental Survey of English Literature 1
 ENGL 203 (3) Departmental Survey of English Literature 2
 ENGL 215 (3) Introduction to Shakespeare
 FREN 250 (3) Littérature française avant 1800
 GERM 259 (3) Introduction to German Literature 1

HISP 241	(3)	Survey of Spanish Literature 1
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

List D

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea
HISP 225	(3)	Hispanic Civilization 1
HIST 200	(3)	Introduction to African History
HIST 204	(3)	History of Great Britain to 1688
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 208	(3)	Introduction to East Asian History
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 234	(3)	German History to 1648
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth

Complementary Courses: Streams

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

9 credits - any course from the lists of streams below, or any language study, in any combination;

At least 18 credits in one of the four specialized streams below:

NOTE: Distribution Requirement:

Every student must take at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6 credits in coursework primarily emphasizing texts or history from the period 1500-1900. Every student must also take at least 9 credits in coursework primarily emphasizing Africa and/or Asia including the Middle East, and at least 9 credits in coursework primarily emphasizing Europe and/or the Americas or Australasia. Any given course may meet both a period distribution requirement and a geographic distribution requirement.

Stream 1 - Languages and literature

- Any course in Arts at the 200 level or higher dedicated to teaching a language other than English, or taught in a language other than English
- Any course at the 200 level or higher in French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), or Russian Studies (RUSS)
- Any course in Classics (CLAS) that is labeled as Classical Languages (LA), Classical Literature (LI), or Modern Greek (MG) as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/classics/teaching/thematic-areas>
- Any course in East Asian Studies (EAST) on the department's course list for East Asian Language courses
- Any course in Jewish Studies (JWST) on the department's course list for Hebrew Language and Literature, Yiddish Language and Literature, or Biblical Studies
- Any course at the 200 level or above in English (ENGL) on the department's course list for the Literature Option as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/english/undergrad/handbook/major>

AFRI 401	(3)	Swahili Language and Culture
EAST 307	(3)	Topics: Chinese Language and Literature 1

EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 453	(3)	Topics: Chinese Literature
EAST 490	(3)	Confucius and the Classics
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 585	(3)	Arab Women's Literature
RELG 203	(3)	Bible and Western Culture
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

Stream 2 - The fine arts and their histories

- Any course at the 200 level or above in Art History and Communication Studies labeled as Art History (ARTH)

- Any course at the 200 level or above in MUAR (Music-Arts Faculty) or the Schulich School of Music labeled MUTH (Music Theory and Analysis) or MUHL (Music, History and Literature)

CLAS 300	(3)	Greek Drama and the Theatre
CLAS 370	(3)	Gender in the Ancient World
EAST 215	(3)	Introduction to East Asian Art
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 357	(3)	Early Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
ENGL 230	(3)	Introduction to Theatre Studies
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 314	(3)	20th Century Drama
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 455	(3)	Religion and the Performing Arts in South India
RUSS 385	(3)	Russian Drama

Stream 3 - Ethics and social thought

- All courses in Group A of the Minor Concentration in Philosophy;
- All Philosophy (PHIL) and Political Science (POLI) courses in the Minor Concentration in Political Theory.

CATH 315	(3)	Catholicism and Moral Culture
CATH 340	(3)	Catholic Social Thought
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ISLA 200	(3)	Islamic Civilization
ISLA 380	(3)	Islamic Philosophy and Theology
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 365	(3)	Modern Jewish Ideologies
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics

Stream 4 - History and the liberal arts

- Any course from Philosophy (PHIL), lists C and D, as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/philosophy/undergraduate/requirements>
- Any course from Classics (CLAS) included on the Classical Civilizations course list as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/classics/teaching/thematic-areas>

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 521	(3)	Structure of Cities
ARCH 528	(3)	History of Housing
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
GERM 259	(3)	Introduction to German Literature 1
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HIST 200	(3)	Introduction to African History

HIST 201	(3)	Modern African History
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 204	(3)	History of Great Britain to 1688
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 211	(3)	American History to 1865
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 218	(3)	Modern East Asian History
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 221	(3)	United States since 1865
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 234	(3)	German History to 1648
HIST 235	(3)	German History since 1648
HIST 236	(3)	Russia from 1801 to 1991
HIST 238	(3)	Histories of Science
HIST 240	(3)	Modern History of Islamic Movements
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 307	(3)	Jews in Poland
HIST 308	(3)	Formation of Chinese Tradition
HIST 309	(3)	History of Latin America to 1825
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 318	(3)	History of Japan 1
HIST 319	(3)	The Scientific Revolution
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 323	(3)	History and Sexuality 1
HIST 325	(3)	Renaissance-Reformation Europe
HIST 328	(3)	The Qing Empire
HIST 330	(3)	Science in the Medieval West
HIST 334	(3)	History of New France
HIST 336	(3)	France, 1789 to 1914
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 343	(3)	Women in Post-Confederation Canada
HIST 345	(3)	History of Italian Renaissance

HIST 346	(3)	France, 1914 to the Present
HIST 347	(3)	History and Sexuality 2
HIST 348	(3)	China: Science-Medicine-Technology
HIST 350	(3)	Science and the Enlightenment
HIST 352	(3)	Japanese Intellectual History 2
HIST 353	(3)	History of Montreal
HIST 354	(3)	Women in Europe 1700-2000
HIST 356	(3)	Medicine in the Medieval West
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 364	(3)	Canada 1914-1945
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 405	(3)	European Cultural History 1
HIST 412	(3)	Women and Gender in Modern Britain
HIST 414	(3)	Canadian Cultural History
HIST 415	(3)	European Cultural History 2
HIST 417	(3)	British & Irish Nationalisms
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 421	(3)	Topics in Early Modern Europe
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 440	(3)	Fiction and History
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 446	(3)	Russian Thought to 1825
HIST 447	(3)	The Natural History of America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 449	(3)	Medicine in the Ancient World
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History

HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 488D1	(3)	Topics: Modern French History
HIST 488D2	(3)	Topics: Modern French History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 365	(3)	Middle East Since the 1970's
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islam in South Asia: 1707 to Present
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 361	(3)	The Shtetl: 1500-1897
JWST 366	(3)	History of Zionism
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 322	(3)	The Church in History 1

RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 420	(3)	Canadian Church History
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

3.10.32.5 Bachelor of Arts (B.A.) - Joint Honours Liberal Arts (36 credits)

Currently under review. Admissions will not be accepted for the 2013–2014 academic year.

The Joint Honours in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students will have an opportunity to learn a language other than English, as well as history, literature and art, ethics, philosophy, and social thought. They will also be exposed to materials from a range of cultures and societies as well as from different historical periods.

Four intellectual streams will be available to choose from: languages and literature; the fine arts and their histories; ethics and social thought; and history and the liberal arts. Students will be expected to satisfy distribution requirements across regions of the world and historical eras.

At least 18 credits must be from the 300 level or above, at least 9 credits at the 400 level or above.

Joint Honours students must maintain a program GPA of 3.30 and an overall CGPA of 3.00.

No more than 18 credits may be from one Humanities department.

Required Course (3 credits)

LIBA 402	(3)	Seminar in Liberal Arts

Complementary Courses (33 credits)

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

21 credits to be chosen as follows:

12 credits must be in the study of a language other than English or French;

9 credits from one of the following lists:

List A

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 240	(3)	Political Philosophy 1
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

List B

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 209	(3)	Introduction to Ancient Art and Architecture
EAST 215	(3)	Introduction to East Asian Art

MUSIC: Up to 6 credits of Music courses to be selected in consultation with the Program Director.

List C

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
FREN 250	(3)	Littérature française avant 1800
GERM 259	(3)	Introduction to German Literature 1
HISP 241	(3)	Survey of Spanish Literature 1
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

List D

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea
HISP 225	(3)	Hispanic Civilization 1
HIST 200	(3)	Introduction to African History
HIST 204	(3)	History of Great Britain to 1688
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 208	(3)	Introduction to East Asian History
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 234	(3)	German History to 1648
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth

Complementary Courses: Streams

Below is a list of approved courses. Additional courses may be substituted with the approval of the Program Director.

At least 12 credits in one of the four specialized streams below:

NOTE: Distribution Requirement:

Every student must take at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6 credits in coursework primarily emphasizing texts or history from the period 1500-1900. Every student must also take at least 6 credits in coursework primarily emphasizing Africa and/or Asia, and at least 6 credits in coursework primarily emphasizing Europe and/or the Americas or Australasia. Any given course may meet both a period distribution requirement and a geographic distribution requirement.

Stream 1 - Languages and literature

- Any course in Arts at the 200 level or higher dedicated to teaching a language other than English, or taught in a language other than English
- Any course at the 200 level or higher in French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), or Russian Studies (RUSS)
- Any course in Classics (CLAS) that is labeled as Classical Languages (LA), Classical Literature (LI), or Modern Greek (MG) as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/classics/teaching/thematic-areas>
- Any course in East Asian Studies (EAST) on the department's course list for East Asian Language courses
- Any course in Jewish Studies (JWST) on the department's course list for Hebrew Language and Literature, Yiddish Language and Literature, or Biblical Studies

- Any course at the 200 level or above in English (ENGL) on the department's course list for the Literature Option as found on the department's website listing its undergraduate programs at: <http://www.mcgill.ca/english/undergrad/handbook/major>

AFRI 401	(3)	Swahili Language and Culture
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 453	(3)	Topics: Chinese Literature
EAST 490	(3)	Confucius and the Classics
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 585	(3)	Arab Women's Literature
RELG 203	(3)	Bible and Western Culture
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

Stream 2 - The fine arts and their histories

- Any course at the 200 level or above in Art History and Communication Studies labeled as Art History (ARTH)

- Any course at the 200 level or above in MUAR (Music-Arts Faculty) or the Schulich School of Music labeled MUTH (Music Theory and Analysis) or MUHL (Music, History and Literature)

CLAS 300	(3)	Greek Drama and the Theatre
CLAS 370	(3)	Gender in the Ancient World
EAST 215	(3)	Introduction to East Asian Art
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 357	(3)	Early Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
ENGL 230	(3)	Introduction to Theatre Studies
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 314	(3)	20th Century Drama
RELG 345	(3)	Religion and the Arts 1

RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 455	(3)	Religion and the Performing Arts in South India
RUSS 385	(3)	Russian Drama

Stream 3 - Ethics and social thought

- All courses in Group A of the Minor Concentration in Philosophy

- All Philosophy (PHIL) and Political Science (POLI) courses in the Minor Concentration in Political Theory

CATH 315	(3)	Catholicism and Moral Culture
CATH 340	(3)	Catholic Social Thought
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ISLA 200	(3)	Islamic Civilization
ISLA 380	(3)	Islamic Philosophy and Theology
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 365	(3)	Modern Jewish Ideologies
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics

Stream 4 - History and the liberal arts

- Any course from Philosophy (PHIL), lists C and D, as found on the department's website listing its undergraduate programs at:
<http://www.mcgill.ca/philosophy/undergraduate/requirements>

- Any course from Classics (CLAS) included on the Classical Civilizations course list list as found on the department's website listing its undergraduate programs at <http://www.mcgill.ca/classics/teaching/thematic-areas>

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 521	(3)	Structure of Cities
ARCH 528	(3)	History of Housing
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
ENGL 347	(3)	Great Writings of Europe 1

ENGL 348	(3)	Great Writings of Europe 2
GERM 259	(3)	Introduction to German Literature 1
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 204	(3)	History of Great Britain to 1688
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 211	(3)	American History to 1865
HIST 213	(3)	World History, 1300-2000
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 218	(3)	Modern East Asian History
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 221	(3)	United States since 1865
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 234	(3)	German History to 1648
HIST 235	(3)	German History since 1648
HIST 236	(3)	Russia from 1801 to 1991
HIST 238	(3)	Histories of Science
HIST 240	(3)	Modern History of Islamic Movements
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 307	(3)	Jews in Poland
HIST 308	(3)	Formation of Chinese Tradition
HIST 309	(3)	History of Latin America to 1825
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 318	(3)	History of Japan 1
HIST 319	(3)	The Scientific Revolution
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 323	(3)	History and Sexuality 1
HIST 325	(3)	Renaissance-Reformation Europe
HIST 328	(3)	The Qing Empire
HIST 330	(3)	Science in the Medieval West
HIST 334	(3)	History of New France

HIST 336	(3)	France, 1789 to 1914
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 343	(3)	Women in Post-Confederation Canada
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 347	(3)	History and Sexuality 2
HIST 348	(3)	China: Science-Medicine-Technology
HIST 350	(3)	Science and the Enlightenment
HIST 352	(3)	Japanese Intellectual History 2
HIST 353	(3)	History of Montreal
HIST 354	(3)	Women in Europe 1700-2000
HIST 356	(3)	Medicine in the Medieval West
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 364	(3)	Canada 1914-1945
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 405	(3)	European Cultural History 1
HIST 412	(3)	Women and Gender in Modern Britain
HIST 414	(3)	Canadian Cultural History
HIST 415	(3)	European Cultural History 2
HIST 417	(3)	British & Irish Nationalisms
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 421	(3)	Topics in Early Modern Europe
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 440	(3)	Fiction and History
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 446	(3)	Russian Thought to 1825

HIST 447	(3)	The Natural History of America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 449	(3)	Medicine in the Ancient World
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 488D1	(3)	Topics: Modern French History
HIST 488D2	(3)	Topics: Modern French History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 365	(3)	Middle East Since the 1970's
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islam in South Asia: 1707 to Present
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 361	(3)	The Shtetl: 1500-1897
JWST 366	(3)	History of Zionism
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 433	(3)	History of Political/Social Theory 3

POLI 434	(3)	History of Political/Social Theory 4
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 420	(3)	Canadian Church History
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

3.10.33 Linguistics (LING)

3.10.33.1 Location

1085 Dr. Penfield Avenue
Montreal, Quebec H3A 1A7

Telephone: 514-398-4222

Website: www.mcgill.ca/linguistics

3.10.33.2 About Linguistics

Linguistics is the scientific study of human language. Topics include: the structure of the world's languages at the level of sounds (phonetics and phonology), words (morphology), sentences (syntax), and meaning (semantics); how people learn languages (acquisition); how people use two languages (bilingualism); how language is processed and represented in the brain (psycho- and neurolinguistics); how languages change over time (historical linguistics); and how languages vary in relation to region and social identity (dialectology and sociolinguistics). In addition to preparing students for advanced academic work in linguistics and related disciplines (e.g., anthropology, cognitive neuroscience, computer science, philosophy, or psychology), courses in linguistics provide a useful background for many careers, for example, language teaching, translation, child psychology, speech-language pathology, communication, and speech technology.

The Linguistics department offers a minor concentration, a major concentration, an honours program, and a joint honours program with other departments in the Faculty of Arts.

3.10.33.3 New Students

Students who are registering with the Department for the first time must attend the Department orientation meeting before seeing an adviser (www.mcgill.ca/linguistics/undergraduate).

3.10.33.4 Requirements

Linguistics students must do at least two-thirds of their Linguistics courses at McGill. Honours students must also do their Honours thesis at McGill.

Inquiries may be addressed to the departmental office or the advisers for undergraduate studies.

3.10.33.5 Linguistics (LING) Faculty

Chair

TBA

Emeritus Professors

C. Douglas Ellis; B.A.(Camb.), B.A.(McG.), M.A.(Tor.), M.A.(Yale), Ph.D.(McG.)

Myrna Gopnik; M.A., Ph.D.(Penn.)

Michel Paradis; B.A.(Montr.), M.A., Ph.D.(McG.), Ph.D.(Montr.), F.R.S.C.

Glyne L. Piggott; B.A.(W.I.), M.A., Ph.D.(Tor.)

Professors

Brendan Gillon; B.A., M.A.(Mich.), M.A.(Tor.), Ph.D.(MIT)
 Yosef Grodzinsky; B.Sc.(Hebrew), Ph.D.(Brandeis) (*Canada Research Chair*)
 Lisa de M. Travis; B.A.(Yale), Ph.D.(MIT)
 Lydia White; M.A.(Camb.), Ph.D.(McG.) (*James McGill Professor*)

Associate Professors

Charles Boberg; B.A.(Alta.), Ph.D.(Penn.)
 Heather Goad; B.A.(Br. Col.), M.A., Ph.D.(USC)
 Bernhard Schwarz; M.A.(Tübingen), Ph.D.(Mass.)
 Junko Shimoyama; B.A., M.A.(Ochanomizu), Ph.D.(Mass.)
 Michael Wagner; M.A.(Humboldt), Ph.D.(MIT)

Assistant Professors

Luis Alonso-Ovalle; B.A.(Oviedo), M.A., Ph.D.(Mass.)
 Meghan Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)
 Jessica Coon; B.A.(Reed), Ph.D.(MIT)
 Morgan Sonderegger; B.A.(MIT), M.S., Ph.D.(Chic.)

3.10.33.6 Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)

This program may be expanded to the Major Concentration Linguistics.

Required Courses (9 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 371	(3)	Syntax 1

Complementary Courses (9 credits)

9 credits in Linguistics (LING) selected as follows:

3 credits must be at the 400 or 500 level,

3 credits must be selected from the following list, and

3 credits can be chosen according to the student's interests.

Note: If a 400- or 500-level course is chosen from the following list, the remaining 6 credits can be chosen according to the student's interests.

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 390	(3)	Neuroscience of Language
LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

Students who take LING 360 as a complementary course may also take PHIL 210 as a complementary but must choose a 400- or 500-level course from the list above.

LING 360	(3)	Introduction to Semantics
PHIL 210	(3)	Introduction to Deductive Logic 1

3.10.33.7 Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)

Required Courses (18 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (18 credits)

18 credits in Linguistics (LING) selected as follows:

9 credits must be at the 400 or 500 level,

3 credits must be selected from the following list, and

6 credits can be chosen according to the student's interests.

Note: If a 400- or 500-level course is chosen from the following list, it may be used toward the 9 credits of 400- or 500-level courses; the remaining 9 credits can then be chosen according to the student's interests.

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 390	(3)	Neuroscience of Language
LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

3.10.33.8 Bachelor of Arts (B.A.) - Honours Linguistics (60 credits)

Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Honours Thesis, LING 480D1/D2. According to Faculty of Arts regulations, Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (24 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 480D1	(3)	Honours Thesis
LING 480D2	(3)	Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (36 credits)

36 credits with 24 credits in Linguistics and 12 credits in related fields.

24 linguistics (LING) credits are selected as follows:

15 linguistics credits must be at the 400 or 500 level,

3 of which are selected from the following list, and

9 other credits in linguistics, usually at the 200 or 300 level.

LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

Other Fields

12 credits in related fields selected from the following list.

Computer Science

COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science

French Language and Literature

FREN 231	(3)	Linguistique française
FREN 336	(3)	Histoire de la langue française
FREN 434	(3)	Sociolinguistique du français

Language

Any course in language (other than the student's native language) - literature courses are not acceptable.

Mathematics

MATH 240	(3)	Discrete Structures 1

Philosophy

PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 415	(3)	Philosophy of Language
PHIL 515	(3)	Seminar: Philosophy of Language

Psychology

PSYC 311	(3)	Human Cognition and the Brain
PSYC 316	(3)	Psychology of Deafness
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 530	(3)	Applied Topics in Deafness
PSYC 532	(3)	Cognitive Science
PSYC 561	(3)	Methods: Developmental Psycholinguistics

Statistics

Any course in statistics (from any department).

3.10.33.9 Bachelor of Arts (B.A.) - Joint Honours Component Linguistics (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Joint Honours Thesis, LING 481D1/D2. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (21 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 481D1	(1.5)	Joint Honours Thesis
LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (15 credits)

15 credits in Linguistics (LING) selected as follows:

9 credits must be at the 400 or 500 level, 3 of which must be selected from the following list, and

6 other credits in Linguistics, usually at the 200 or 300 level.

LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

3.10.33.10 Linguistics (LING) Related Programs

31033101 Minor in Cognitive Science

Students following major or honours programs in Linguistics with an interest in cognition may want to consider the Minor in Cognitive Science. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.13.8: Cognitive Science](#).

3.10.34 Management for Arts Students

The Desautels Faculty of Management offers four minor programs for non-Management students open for application to students in the Faculty of Arts. Please refer to *Programs, Courses and University Regulations* > *Faculties & Schools* > [Desautels Faculty of Management](#) for detailed information about program requirements and applying.

3.10.34.1 Minor Finance (For Non-Management Students) (18 credits)

The Minor Finance consists of 18 credits of Management courses and is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

The Minor has been designed to provide students with an understanding of the key concepts in corporate finance as well as investment banking.

Required Courses (9 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
MGCR 341*	(3)	Finance 1

Complementary Courses (9 credits)

9 credits selected from:

FINE 442	(3)	Capital Markets and Institutions
FINE 443	(3)	Applied Corporate Finance
FINE 445	(3)	Real Estate Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments

FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

or other appropriate 300- or 400-level FINE courses with the approval of the Program Adviser.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

3.10.34.2 Minor Management (For Non-Management Students) (18 credits)

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Finance 1

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Marketing Management 1
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

3.10.34.3 Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will

be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

3.10.34.4 Minor Operations Management (For Non-Management Students) (18 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and Agricultural & Environmental Sciences.

It provides non-Management students with the opportunity to pursue a career that involves decision making at the operational level. Graduates will be able to find employment in consulting, manufacturing, supply chain, distribution, retail operations, healthcare management and environmental management for profit and non-profit corporations. This Minor has been designed to provide students with an understanding of the key concepts in operations management theory and practice.

Required Courses (6 credits)

MGCR 472	(3)	Operations Management
MGSC 373	(3)	Operations Research 1

Complementary Courses (12 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

9 credits selected from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 431	(3)	Operations Analysis
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

or other appropriate 300- or 400-level MGSC courses with the approval of the Program Adviser.

* 3 credits of Statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

3.10.35 Mathematics and Statistics (MATH)

3.10.35.1 Location

Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal, Quebec H3A 0B9

Telephone: 514-398-3800
Website: www.math.mcgill.ca

3.10.35.2 About Mathematics and Statistics

The Department of Mathematics and Statistics offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of the discipline, refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > [section 13.13.21: Mathematics and Statistics \(MATH\)](#)*.

A Desautels Faculty of Management B.Com. degree with a Major in Mathematics and a Schulich School of Music B.Mus. degree with Honours in Theory with Mathematics option are also available.

Students entering a Mathematics program are normally expected to have completed MATH 133, MATH 139 or MATH 140, MATH 141, or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the program credits.

The programs specifically for Arts students are described in this section. The following programs, which are fully described in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate*, may be taken by students in either Arts or Science:

Honours in Mathematics

Honours in Applied Mathematics

Honours in Probability and Statistics

Joint Honours in Mathematics and Computer Science

Students entering one of the Minor or Major concentrations listed below who have successfully completed a course equivalent to MATH 222 (Calculus 3) prior to coming to McGill are given exemption from taking MATH 222, but must replace it with a Complementary Mathematics course in the program of at least 3 credits.

3.10.35.3 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Expandable Version: Required Courses (12 credits)

* Note: Credit cannot be received for both MATH 236 and MATH 223 (listed as a required course in the non-expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236*	(3)	Algebra 2
MATH 315	(3)	Ordinary Differential Equations

Expandable Version: Complementary Courses (6 credits)

Students selecting the expandable version of this program complete 6 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

Non-Expandable Version: Required Courses (9 credits)

* Note: Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations

Non-Expandable Version: Complementary Courses (9 credits)

Students selecting the non-expandable version of this program complete 9 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

Complementary Course List

* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis

MATH 340	(3)	Discrete Structures 2
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 407	(3)	Dynamic Programming
MATH 417	(3)	Mathematical Programming
MATH 427	(3)	Statistical Quality Control

3.10.35.4 Bachelor of Arts (B.A.) - Supplementary Minor Concentration in Mathematics (18 credits)

This Minor concentration is open only to students registered in the Major Concentration Mathematics. Taken together, these two concentrations constitute a program equivalent to the Major in Mathematics offered by the Faculty of Science.

No course overlap between the Major Concentration Mathematics and the Supplementary Minor Concentration in Mathematics is permitted.

Note that according to the Faculty of Arts Multi-track System degree requirements, option C, students registered in the Supplementary Minor Concentration in Mathematics must also complete another minor concentration in a discipline other than Mathematics.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

Required Course (3 credits)

* Note: If Math 315 has already been taken as part of the Major Concentration Mathematics, an additional 3-credit complementary course must be taken to replace it.

MATH 315*	(3)	Ordinary Differential Equations

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

* Note: If either of MATH 249 or MATH 316 has been taken as part of the Major Concentration Mathematics, another 3-credit complementary course must be taken.

MATH 249*	(3)	Honours Complex Variables
MATH 316*	(3)	Complex Variables

12 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 335	(3)	Computational Algebra
MATH 338	(3)	History and Philosophy of Mathematics
MATH 340	(3)	Discrete Structures 2
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry

MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

3.10.35.5 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (15 credits)

* Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222, MATH 223 and MATH 323 must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the Major Concentration Mathematics).

MATH 222*	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

Complementary Courses (3 credits)

3 credits from:

COMP 202	(3)	Foundations of Programming
MATH 204	(3)	Principles of Statistics 2
MATH 317	(3)	Numerical Analysis
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models

MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

3.10.35.6 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering into an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Course Selection

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 328, MATH 340, MATH 407, MATH 417, and take the Minor Concentration Computer Science.

Students interested in probability and statistics should consider either taking the Minor Concentration Statistics under option C, or else including some or all of the courses MATH 423, MATH 447, MATH 523, MATH 524, and MATH 525.

Students interested in applied mathematics should consider the courses MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407 and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, MATH 407, MATH 417, MATH 423, MATH 447, MATH 523, and MATH 525.

Required Courses (21 credits)

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 323	(3)	Probability

Complementary Courses (15 credits)

15 credits selected as follows:

At least 9 credits from:

* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2

MATH 423	(3)	Regression and Analysis of Variance

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

3.10.35.7 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (15 credits)

MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses

21 credits with at 15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

MATH 325	(3)	Honours Ordinary Differential Equations
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 366	(3)	Honours Complex Analysis
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 380	(3)	Honours Differential Geometry

3.10.36 Middle East Studies (MEST)

3.10.36.1 Location

Morrice Hall
3485 McTavish Street, Room 319
Montreal, Quebec H3A 0E1

Telephone: 514-398-6077
Fax: 514-398-6731
Website: www.mcgill.ca/mes

3.10.36.2 About Middle East Studies

The Middle East Studies program is designed for students who wish to pursue an interdisciplinary program of study focusing on the Middle East since the rise of Islam. Courses offered include language, history, religion and philosophy, political science, and anthropology. From these are drawn combinations which make up the Major and Minor concentrations, Honours, and Joint Honours in Middle East Studies.

Students wishing to pursue a program in Middle East Studies must consult a program adviser each year to devise a suitable program. Before doing so, students should consult the Middle East Studies' website at www.mcgill.ca/mes for a full description of each program. Failure to consult an adviser could lead to a delay in completing program requirements. Students wishing to have courses taken at other universities counted as satisfying program requirements must bring copies of their transcripts and course syllabi to the Program Adviser.

3.10.36.3 Middle East Studies (MEST) Faculty

Program Adviser

Setrag Manoukian, 514-398-6077

Program Committee Chair

Setrag Manoukian; Laurea(Venice), M.A., Ph.D.(Mich.) (*Anthropology and Islamic Studies*)

Program Committee

Rula Abisaab; B.A.(Amer. U. Beirut), M.A.(Calif. St.), M.Phil., Ph.D.(Yale) (*Islamic Studies*)

Michael Bisson; B.A., M.A., Ph.D.(Calif., Santa Barbara) (*Anthropology*)

Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.) (*Political Science*)

Michelle L. Hartman; B.A.(Col.), D.Phil.(Oxf.) (*Islamic Studies*)

F. Jamil Ragep; B.A., M.A.(Mich.), Ph.D.(Harv.) (*Islamic Studies*)

3.10.36.4 Bachelor of Arts (B.A.) - Minor Concentration Middle East Studies (18 credits)

This program may be expanded to the Major Concentration Middle East Studies.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the Middle East Studies course lists as follows:

6 credits of "core" courses from the History list

6 credits from the Religion and Philosophy list with at least 3 credits in "core" courses

6 credits from the Social Sciences list

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics

ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

3.10.36.5 Bachelor of Arts (B.A.) - Minor Concentration Middle East Languages (18 credits)

This program may be expanded to the Major Concentration Middle East Studies.

Complementary Courses (18 credits)

18 credits of Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below), selected as follows:

Either

18 credits (3 levels) in one language, or

12 credits (2 levels) in one language and 6 credits (1 level) in another language.

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2

JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

Students who need to take a third level in Turkish should consult the Program Adviser for course options.

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

3.10.36.6 Bachelor of Arts (B.A.) - Major Concentration Middle East Studies (36 credits)

Required Courses (3 credits)

MEST 495	(3)	Middle East Studies: Research Seminar

Complementary Courses (33 credits)

33 credits of complementary courses selected from the Middle East Studies course lists as follows:

12 credits (2 levels) in one Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below). In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21 credits (18 if Arabic has been chosen), distributed as follows:

6-9 credits from the History list with at least 6 credits in "core" courses

6-9 credits from the Religion and Philosophy list with at least 6 credits in "core" courses

3-6 credits from the Social Sciences list

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict

HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

3.10.36.7 Bachelor of Arts (B.A.) - Honours Middle East Studies (60 credits)

Honours students must maintain a program GPA of 3.30 in their Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (6 credits)

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

Complementary Courses (54 credits)

54 credits of complementary courses selected from the Middle East Studies course lists as follows:

18-21 credits (3 levels) in one Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below)

9-15 credits from the History list with at least 9 credits in "core" courses

9-15 credits from the Religion and Philosophy list with at least 6 credits in "core" courses

6-12 credits from the Social Sciences list

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

Students who need to take a third level in Turkish should consult the Program Adviser for course options.

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam

ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

3.10.36.8 Bachelor of Arts (B.A.) - Joint Honours Component Middle East Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a program GPA of 3.30 in their Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (3 credits)

MEST 495	(3)	Middle East Studies: Research Seminar

Complementary Courses (33 credits)

33 credits of complementary courses selected from the Middle East Studies course lists as follows:

12 credits (2 levels) in one Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below). In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21 credits (18 if Arabic has been chosen), distributed as follows:

6-9 credits from the History list with at least 6 credits in "core" courses

6-9 credits from the Religion and Philosophy list with at least 6 credits in "core" courses

3-6 credits from the Social Sciences list

At least 6 of the complementary credits must be at the 400 level or above.

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish

ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics

ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

3.10.37 Music (MUAR)

3.10.37.1 Location

Strathcona Music Building
555 Sherbrooke Street West
Montreal, Quebec H3A 1E3

Telephone: 514-398-4535
Fax: 514-398-8061
Website: www.mcgill.ca/music

3.10.37.2 About Music Programs in Arts

Available within the Faculty of Arts are a major and a minor concentration in Music. Arts students may also apply to the Minor in Musical Applications of Technology and the Minor in Musical Science and Technology.

Admission to the B.A. program is granted according to criteria established by the Faculty of Arts.

Students in the B.A. Freshman Program who are considering a Music concentration should see the Freshman Adviser in Arts OASIS in Dawson Hall. They should also see the Music Adviser in order to ensure that they include any necessary prerequisite Music courses (based on the results of placement examinations) in their first-year selection.

Students interested in a more intensive music program, including practical instruction on an instrument or in voice and additional ensemble participation, should consider the B.Mus. degree or the diplomas offered by the Schulich School of Music; see *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > Overview of Programs > section 11.5.1: Degrees and Diplomas Offered*.

3.10.37.3 Music Ensembles

Arts students may, with the permission of the instructor and the Associate Dean (Student Affairs) of the Faculty of Arts, participate in one of the following ensembles in a given year. Auditions are held starting the week prior to the beginning of classes in September and continuing during that first week. The schedule and requirements for these auditions are available at the end of June from the Department of Performance office, 514-398-4542. Normally both the Fall and Winter sections of an ensemble are taken in the same academic year.

Music Ensembles		
MUEN 496	(2)	Opera Studio
MUEN 560	(1)	Chamber Music Ensemble
MUEN 589	(1)	Woodwind Ensembles
MUEN 590	(2)	McGill Winds
MUEN 591	(1)	Brass Ensembles
MUEN 593	(2)	Choral Ensembles

Music Ensembles

MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles
MUEN 598	(1)	Percussion Ensembles

3.10.37.4 Courses Offered by the Schulich School of Music as electives for students in the Faculties of Arts, Science, and Education

The courses referred to below are also open to students from other faculties. Other Music courses may be taken by qualified students from other faculties providing they obtain permission from the relevant department in the Schulich School of Music and from the Associate Dean of their own faculty.

All courses with the prefix MUAR.

These are considered to be courses taught in the Faculty of Arts, but they cannot be credited toward the B.A. or B.Sc. Music programs.

The Music History and Literature (MUHL), Music Theory and Analysis (MUTH), and Music Technology (MUMT) courses listed below are considered by the Faculty of Arts as courses taught in the Faculty; **however**, the Faculty of Science considers them to be courses taught outside of the Faculty.

These courses are intended for students who have at least high school matriculation music or the equivalent. Students who do not have the formal music prerequisites require the permission of the Chair of the Department of Music Research to register for any of these courses.

MUHL (Music History and Literature)

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking about Music

MUTH (Music Theory and Analysis)

Students not in the B.A. or B.Sc. Music programs are not required to take the corequisites for the following MUTH courses. However, students intending later to enter either the B.A. Major concentration or the B.Mus. program would then be required to sit placement tests in Musicianship and Keyboard Proficiency and may be required to take the corequisite courses.

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

MUMT (Music Technology)

MUMT 202	(3)	Fundamentals of New Media
MUMT 203	(3)	Introduction to Digital Audio
MUMT 301	(3)	Music and the Internet
MUMT 302	(3)	New Media Production 1
MUMT 303	(3)	New Media Production 2

3.10.37.5 Music (MUAR) Faculty**Department of Music Research Chair**

Christoph Neidhöfer

Department of Performance Chair

Jean Lesage

Adviser (B.A./B.Sc. Music programs)

Sara Laimon
514-398-4535, ext. 1882

3.10.37.6 Bachelor of Arts (B.A.) - Minor Concentration Music (18 credits)

Please note this program is under review.

Students in the B.A. Freshman program who are considering a Music concentration should see the Freshman adviser in Arts OASIS in Dawson Hall. They should also see a Music adviser in order to ensure that they include any necessary prerequisite Music courses (based on the results of placement examinations) in their first-year selection. Questions regarding the requirements of the B.A. Minor Concentration and especially elective courses should be addressed to Arts OASIS.

Prerequisite Courses

Students who have not successfully completed the diagnostic placement exams for the required courses for this program will be asked to register for one or both of the courses below. These courses may not be counted toward the 18 credits of the program requirements.

MUHL 186	(3)	Western Musical Traditions
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (9 credits)

Prior to registering for each required course, students must take a diagnostic placement exam. If the appropriate level is not achieved on the examination, students will be asked to register for one or both of the prerequisite courses.

MUHL 286	(3)	Critical Thinking About Music
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Complementary Courses (9 credits)

Students may select from courses in the Schulich School of Music except for courses with a MUAR subject code. Students must meet all prerequisite and/or corequisite requirements before registering.

3.10.37.7 Bachelor of Arts (B.A.) - Major Concentration Music (36 credits)

Please note that this program is currently under review.

This Major concentration studies music as a vital art form in contemporary society and in the history of Western civilization. Its central purpose emphasizes music within broader intellectual and cultural contexts; the Major concentration's premise is that, as a product of culture, music must be considered in relation to the other humanistic disciplines. This degree could be an excellent preparation for graduate work in music (musicology, music theory, music librarianship, music journalism, arts administration) or for professional studies in other fields.

Students in the Major concentration MUST consult the Adviser PRIOR to registration each year. Questions regarding the requirements of the B.A. Major Concentration and especially elective courses should be addressed to Arts OASIS in Dawson Hall.

Prerequisite Courses

Students who have not successfully completed the diagnostic placement exams for the required courses for this program will be asked to register for one or more of the courses below. These courses may not be counted toward the 36 credits of the program requirements.

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (16 credits)

Prior to registering for the required courses MUSP 240, MUSP 241, MUTH 250, and MUTH 251, students must take the diagnostic placement exams. If the appropriate level is not achieved on the examination, students will be asked to register for one or more prerequisite courses.

MUHL 286	(3)	Critical Thinking About Music

MUHL 570	(3)	Research Methods in Music
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Complementary Courses (20 credits)

Students select from courses offered by the Schulich School of Music except for courses with a MUAR subject code. Students must meet all prerequisite and/or corequisite requirements before registering.

3.10.37.8 Music (MUAR) Related Programs

3.10.37.8.1 Minor in Musical Applications of Technology

(18 credits) (Non-Expandable)

[Program registration cannot be done via Minerva.]

Detailed information about this program is found under *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > Programs of Study > [section 11.8.1.10: Minor Musical Applications of Technology \(18 credits\)](#)*.

3.10.37.8.2 Minor in Musical Science and Technology

(18 credits) (Non-Expandable)

[Program registration cannot be done via Minerva.]

Detailed information about this program is found under *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > Programs of Study > [section 11.8.1.11: Minor Musical Science and Technology \(18 credits\)](#)*.

3.10.38 North American Studies (NAST)

3.10.38.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557
Fax: 514-398-1748
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/nast

Adviser: Karin Bourgeois (*on leave*)
Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.38.2 About North American Studies

North American Studies provides a comprehensive view of civilization on this continent, with a special emphasis on the United States. The peoples of the continent are examined in the first instance from the perspective of economics, political science, literature, and history. Subsequent courses are available from several other disciplines as well. Foundation and capstone seminars constitute a vital part of the program. The goal is to attain mastery over diverse material and to develop an integrated knowledge of society on this continent.

Independent study, internships, and university exchange arrangements are available within the context of the program.

Graduates of the program are well prepared for several types of professional options, including those that require advanced degrees.

3.10.38.3 North American Studies Program (NAST) Faculty

Program Director

Professor Thomas Velk; M.S., Ph.D.(Wisc.) (*Economics*)

Program Committee Chair

Professor Harold Waller; M.S.(N'western), Ph.D.(G'town) (*Political Science*)

Program Committee

Charles Boberg; B.A.(Alta.), Ph.D.(Penn.) (*Linguistics*)

Miranda Hickman; B.A.(Brown), M.A., Ph.D.(Mich.) (*English*)

Jason Opal; B.A.(C'nell), M.A., Ph.D.(Brandeis) (*History*)

3.10.38.4 Bachelor of Arts (B.A.) - Minor Concentration North American Studies (18 credits)

This program may be expanded to the Major Concentration North American Studies.

Required Courses (9 credits)

ECON 205	(3)	An Introduction to Political Economy
HIST 211	(3)	American History to 1865
NAST 401	(3)	Interdisciplinary Seminar - North American Studies

Complementary Courses (9 credits)

9 credits to be chosen from at least two departments from the list below:

* Note: Only one of ENGL 225, ENGL 226, or ENGL 227 may be selected.

** Note: It is strongly recommended that students take NAST 201.

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 302	(3)	Money, Banking & Government Policy
ECON 304	(3)	Financial Instruments & Institutions
ECON 311	(3)	United States Economic Development
ENGL 225*	(3)	American Literature 1
ENGL 226*	(3)	American Literature 2
ENGL 227*	(3)	American Literature 3
ENGL 324	(3)	20th Century American Prose
ENGL 326	(3)	19th Century American Prose
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
HIST 221	(3)	United States since 1865
HIST 301	(3)	U.S. Presidential Campaigning
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 322	(3)	Canada: American Presence since 1939
HIST 331	(3)	The United States Between the Wars
HIST 342	(3)	Canada: External Relations since 1867
HIST 351	(3)	Themes in U.S. History since 1865
HIST 360	(3)	Latin America since 1825
HIST 363	(3)	Canada 1870-1914
NAST 201**	(3)	Introduction to North American Studies
NAST 471	(3)	Topics in North American Studies 1
NAST 472	(3)	Topics in North American Studies 2
NAST 490	(3)	Independent Reading & Research

NAST 499	(3)	Arts Internships: North American Studies
POLI 319	(3)	Politics of Latin America
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 342	(3)	Canadian Foreign Policy
POLI 346	(3)	American Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 425	(3)	Topics in American Politics

3.10.38.5 Bachelor of Arts (B.A.) - Major Concentration North American Studies (36 credits)

Required Courses (12 credits)

CANS 200	(3)	Introduction to the Study of Canada
ECON 205	(3)	An Introduction to Political Economy
NAST 201	(3)	Introduction to North American Studies
NAST 401	(3)	Interdisciplinary Seminar - North American Studies

Complementary Courses (24 credits)

24 credits selected as follows:

Communication Studies, Economics, English, History, Political Science

12 credits chosen from at least three disciplines from the list below:

* Note: Only one of ENGL 225, ENGL 226, or ENGL 227 may be selected.

** Note: Prerequisites for POLI 325D1/D2 will be waived for students in the North American Studies program.

COMS 230	(3)	Communication and Democracy
ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ENGL 225*	(3)	American Literature 1
ENGL 226*	(3)	American Literature 2
ENGL 227*	(3)	American Literature 3
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
POLI 325D1**	(3)	Government and Politics: United States
POLI 325D2**	(3)	Government and Politics: United States

Group A

6 credits chosen from Group A:

ANTH 338	(3)	Native Peoples of North America
CANS 305	(3)	Canadian Modernity
CANS 306	(3)	Issues in Native Studies
CANS 307	(3)	Canada in the World
ECON 302	(3)	Money, Banking & Government Policy
ECON 304	(3)	Financial Instruments & Institutions
ECON 311	(3)	United States Economic Development

ENGL 324	(3)	20th Century American Prose
ENGL 326	(3)	19th Century American Prose
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
HIST 301	(3)	U.S. Presidential Campaigning
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 322	(3)	Canada: American Presence since 1939
HIST 331	(3)	The United States Between the Wars
HIST 342	(3)	Canada: External Relations since 1867
HIST 351	(3)	Themes in U.S. History since 1865
HIST 360	(3)	Latin America since 1825
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 371	(3)	American Civil Rights 1877-1940
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
JWST 306	(3)	The American Jewish Community
JWST 386	(3)	American Jewish Literature
NAST 471	(3)	Topics in North American Studies 1
NAST 472	(3)	Topics in North American Studies 2
NAST 490	(3)	Independent Reading & Research
NAST 499	(3)	Arts Internships: North American Studies
POLI 319	(3)	Politics of Latin America
POLI 342	(3)	Canadian Foreign Policy
POLI 346	(3)	American Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 425	(3)	Topics in American Politics
SOCI 327	(3)	Jews in North America

Group B

6 credits chosen from Group B:

* Note: From Group B, either ECON 306 or ECON 426 may be taken but not both.

BUSA 364	(3)	Business Law 1
BUSA 368	(3)	Business Law 2
CANS 409	(3)	Canadian Studies Seminar 9
CANS 412	(3)	Canada and Americas Seminar
COMS 300	(3)	Media and Modernity in the 20th Century
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 306*	(3)	Labour Markets and Wages

ECON 308	(3)	Governmental Policy Towards Business
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 426*	(3)	Labour Economics
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ENGL 407	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 418	(3)	A Major Modernist Writer
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 422	(3)	Studies in 19th Century American Literature
ENGL 423	(3)	Studies in 19th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
HISP 301	(3)	Hispanic Literature - English Translation 1
HIST 409	(3)	Themes in Latin American History 2
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 431	(3)	Topics in U.S. History
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America
HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 530	(3)	U.S. Foreign Relations
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
LING 320	(3)	Sociolinguistics 1
MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 452	(3)	Consumer Behaviour
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
SOCI 318	(3)	Television in Society

3.10.39 Philosophy (PHIL)

3.10.39.1 Location

Leacock Building, Room 908
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-6060
 Fax: 514-398-7148
 Email: info.philosophy@mcgill.ca
 Website: www.mcgill.ca/philosophy

3.10.39.2 About Philosophy

Broadly speaking, the principal aim of philosophy is to increase our understanding of ourselves, the world, and our place in it. Philosophy differs from the empirical and social sciences in important respects. One way to characterize philosophy is by the sorts of questions it seeks to answer, and the ways in which it seeks to answer them. Different areas of philosophy are characterized by the questions they address. For example, Epistemology inquires into the nature of knowledge, Metaphysics is concerned with the fundamental nature of the world and of the types of things that it contains, Ethics investigates the nature of moral judgment and moral reasoning, while Political Philosophy examines such matters as justice, freedom, rights, democracy, and power, and Logic is broadly the analysis of the structure of correct reasoning. In addition, there are the various “Philosophies of...,” e.g., Philosophy of Science, Philosophy of Language, Philosophy of Mind, Philosophy of Religion.

Some of the courses in the Department are explicitly devoted to these specific areas of philosophy, each exploring one or several ways of construing and answering the questions it poses. Other courses explore some period or individual figure in the history of philosophy, approaching philosophical questions through the work of past thinkers, and often exploring connections between the different areas of philosophy.

The discipline of Philosophy, as a particular way of thinking, emphasizes clarity in expression, both written and oral, and rigour in argument. Philosophical questions are intriguing and hard, and so philosophical method stresses thoroughness and intellectual generosity—the willingness and ability to grasp another’s arguments and respond to them.

The Department requires that all students in the Honours and Joint Honours programs take a special 3-credit course (PHIL 301), the principal aim of which is to equip students with the distinctively philosophical skills required for advanced work in the field. The course is not available to students in the Major or Minor programs.

The B.A. in Philosophy is not a professional qualification. It prepares students for graduate work in philosophy and for study in other disciplines, e.g., Law. As the interdisciplinary discipline par excellence, philosophy also maintains and encourages ties with other fields, so many students will find that certain classes in philosophy are directly relevant to their major area of study. The Department has a strong commitment to providing an intensive yet broad-based philosophical education. The research interests of members of the Department are wide-ranging.

See also the separate listing for [section 3.10.25: History and Philosophy of Science \(HPSC\)](#).



Note: Philosophy students may use either PHIL 200 or PHIL 201 toward their program requirements, but not both. Students may, however, take both for credit (using the second as an elective), as the content in PHIL 201 does not overlap with PHIL 200.

3.10.39.3 Philosophy (PHIL) Faculty

Chair

David Davies

Emeritus Professors

Mario A. Bunge; Ph.D.(LaPlata), F.R.S.C. (*John Frothingham Emeritus Professor of Logic and Metaphysics*)

James McGilvray; B.A.(Carleton Coll.), Ph.D.(Yale)

Alastair McKinnon; M.A.(Tor.), Ph.D.(Edin.), B.D.(McG.), F.R.S.C., R.D., D.H.L.(St. Olaf) (*William Macdonald Emeritus Professor of Moral Philosophy*)

Calvin Normore; B.A.(McG.), M.A., Ph.D.(Tor.) (*William Macdonald Professor of Moral Philosophy*)

David Norton; M.A.(Claremont), Ph.D.(Calif.), F.R.S.C (*William Macdonald Emeritus Professor of Moral Philosophy*)

Charles Taylor; M.A., D.Phil.(Oxf.), F.R.S.C.

Professors

David Davies; B.A.(Oxf.), M.A.(Manit.), Ph.D.(W. Ont.)

Marguerite Deslauriers; B.A.(McG.), M.A., Ph.D.(Tor.)

George Di Giovanni; B.A., M.A., S.T.B., Ph.D.(Tor.)

Michael Hallett; B.Sc., Ph.D.(Lond.) (*John Frothingham Professor of Logic and Metaphysics*)

Storrs McCall; B.A.(McG.), B.Phil., D.Phil.(Oxf.)

Associate Professors

Alia Al-Saji; M.A.(Louvain), Ph.D.(Emory)

R. Philip Buckley; Ph.D.(Louvain)

Associate Professors

Emily Carson; M.A.(McG.), Ph.D.(Harv.)

Gaëlle Fiasse; B.A., M.A., Ph.D.(Louvain) (*joint appt. with Faculty of Religious Studies*)

Carlos Fraenkel; B.A., M.A., Ph.D.(Free Univ., Berlin) (*joint appt. with Jewish Studies*)

Ian Gold; B.A., M.A.(McG.), Ph.D.(Princ.) (*joint appt. with Psychiatry*)

Alison Laywine; B.A.(Ott.), M.A.(Montr.), Ph.D.(Chic.)

Eric Lewis; B.A.(C'nell), Ph.D.(Ill.-Chic.)

Stephen Menn; M.A.(Chic.), M.A.(Johns Hop.), Ph.D.(Chic.), Ph.D.(Johns Hop.)

Gregory Mikkelsen; M.S., Ph.D.(Chic.) (*joint appt. with McGill School of Environment*)

Andrew Reisner; B.A.(Middlebury), M.A.(Brist.), D.Phil.(Oxf.)

Hasana Sharp; A.B.(Occidental), M.A.(Binghampton), Ph.D.(Penn.)

Natalie Stoljar; B.A., LL.B.(Syd.), Ph.D.(Princ.) (*joint appt. with Social Studies of Medicine*)

Sarah Stroud; A.B.(Harv.), Ph.D.(Princ.)

Assistant Professors

Michael Blome-Tillmann; B.Phil., D.Phil.(Oxf.)

Iwao Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (*joint appt. with McGill School of Environment*)

Dirk Schlimm; M.Sc.(TU Darmstadt), M.Sc., Ph.D.(Carn. Mell)

Kristin Voigt; B.A., M.Phil., D.Phil.(Oxf.) (*joint appt. with Institute for Health and Social Policy*)

Adjunct Professors

Steven Davis; (Car.)

Susan-Judith Hoffmann; (Dawson)

Iain Macdonald; (Montr.)

Auxiliary Professor

Konstantinos Arvanitakis; B.Sc., M.A., M.D.,C.M.(McG.), D.Psy., C.I.P.C., C.C.M.Q., F.R.C.P., R.S.M.A.(U.K.) (*Can. Institute of Psychoanalysis*)

Associate Members

Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.) (*Political Science*)

Brendan Gillon; B.A., M.A.(Mich.), M.A.(Tor.), Ph.D.(MIT) (*Linguistics*)

Lawrence Kaplan; B.A.(Yeshiva), M.A., Ph.D.(Harv.) (*Jewish Studies*)

Jacob T. Levy; A.B.(Brown), M.A., Ph.D.(Princ.) (*Political Science*)

Robert Wisnovsky (*Islamic Studies*)

3.10.39.4 Bachelor of Arts (B.A.) - Minor Concentration Philosophy (18 credits)**Complementary Courses (18 credits)**

18 credits, of which no more than 9 credits may be at the 200 level and at least 3 credits must be at the 400 or 500 level, distributed as follows:

15 credits from Groups A, B, C, D, and E with one course from at least four of the five groups.

3 additional credits from Groups A, B, C, D, and E or from other Philosophy (PHIL) courses.

Group A

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 334	(3)	Ethical Theory

PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 434	(3)	Ethics 2
PHIL 442	(3)	Topics in Feminist Theory

Group B

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group C

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group D

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group E

PHIL 240	(3)	Political Philosophy 1

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

3.10.39.5 Bachelor of Arts (B.A.) - Major Concentration Philosophy (36 credits)

Required Course (3 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 or PHIL 201 may be included in the program.

Group A

3 credits from:

PHIL 240	(3)	Political Philosophy 1
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology

PHIL 475 (3) Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344 (3) Medieval and Renaissance Political Theory
 PHIL 345 (3) Greek Political Theory
 PHIL 350 (3) History and Philosophy of Ancient Science
 PHIL 353 (3) The Presocratic Philosophers
 PHIL 354 (3) Plato
 PHIL 355 (3) Aristotle
 PHIL 356 (3) Early Medieval Philosophy
 PHIL 357 (3) Late Medieval and Renaissance Philosophy
 PHIL 452 (3) Later Greek Philosophy
 PHIL 453 (3) Ancient Metaphysics and Natural Philosophy
 PHIL 454 (3) Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360 (3) 17th Century Philosophy
 PHIL 361 (3) 18th Century Philosophy
 PHIL 366 (3) 18th and Early 19th Century German Philosophy
 PHIL 367 (3) 19th Century Philosophy
 PHIL 444 (3) Early Modern Political Theory
 PHIL 445 (3) 19th Century Political Theory

Group E

3 credits from:

PHIL 230 (3) Introduction to Moral Philosophy 1
 PHIL 237 (3) Contemporary Moral Issues
 PHIL 242 (3) Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334 (3) Ethical Theory
 PHIL 343 (3) Biomedical Ethics
 PHIL 348 (3) Philosophy of Law 1
 PHIL 434 (3) Ethics 2
 PHIL 442 (3) Topics in Feminist Theory

3.10.39.6 Bachelor of Arts (B.A.) - Honours Philosophy (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (15 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 301	(3)	Philosophical Fundamentals
PHIL 334	(3)	Ethical Theory
PHIL 499	(6)	Tutorial 06

Complementary Courses (45 credits)

45 credits distributed as follows:

3 credits from:

PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

6 credits from:

PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

6 credits from:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy

PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

24 additional credits in Philosophy (PHIL) with 12 credits at the 400 and 500 levels (not including the Honours tutorial PHIL 499) at least 3 credits of which must be at the 500 level.

A maximum of 15 credits from 200-level courses may be used toward the Honours program. Only one of PHIL 200 or PHIL 201 may be counted toward the program.

3.10.39.7 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (9 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 301	(3)	Philosophical Fundamentals
PHIL 334	(3)	Ethical Theory

Complementary Courses (27 credits)

27 credits distributed as follows:

3 credits from:

PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1

PHIL 242 (3) Introduction to Feminist Theory

Group A

6 credits from Group A or Group B.

PHIL 345 (3) Greek Political Theory
 PHIL 350 (3) History and Philosophy of Ancient Science
 PHIL 353 (3) The Presocratic Philosophers
 PHIL 354 (3) Plato
 PHIL 355 (3) Aristotle
 PHIL 452 (3) Later Greek Philosophy
 PHIL 453 (3) Ancient Metaphysics and Natural Philosophy
 PHIL 454 (3) Ancient Moral Theory

Group B

6 credits from Group A or Group B.

PHIL 360 (3) 17th Century Philosophy
 PHIL 361 (3) 18th Century Philosophy
 PHIL 366 (3) 18th and Early 19th Century German Philosophy
 PHIL 367 (3) 19th Century Philosophy
 PHIL 444 (3) Early Modern Political Theory
 PHIL 445 (3) 19th Century Political Theory

3 credits from:

PHIL 375 (3) Existentialism
 PHIL 474 (3) Phenomenology
 PHIL 475 (3) Topics in Contemporary European Philosophy

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 below.

PHIL 498 (3) Tutorial 05

3.10.39.8 Philosophy (PHIL) Related Programs

3.10.39.8.1 Minor in Cognitive Science

Students following Major or Honours programs in Philosophy with an interest in cognition may consider the Minor in Cognitive Science. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.13.8: Cognitive Science](#).

3.10.40 Philosophy and Western Religions (PHWR)

3.10.40.1 Location

Interdisciplinary Programs Office
 688 Sherbrooke Street West, Suite 0431

Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557

Fax: 514-398-1748

Email: interdisciplinary.arts@mcgill.ca

Website: www.mcgill.ca/phwr

Adviser: Karin Bourgeois (*on leave*)

Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.40.2 About Philosophy and Western Religions

All programs in Philosophy and Western Religions (Minor Concentration, Major Concentration, Honours, and Joint Honours) are not available for the 2013–2014 academic year.

This interdisciplinary program, in which the Department of Philosophy, the Institute of Islamic Studies, the Department of Jewish Studies, and the Faculty of Religious Studies collaborate, was designed for students who wish to study the encounter between philosophy and the three Abrahamic religions (Judaism, Christianity, and Islam), an encounter that shaped the basic patterns of Western and Muslim intellectual history. The program covers the period from Antiquity to the Enlightenment during which philosophy and religious thought were inseparably interwoven, making visible the wide range of links between the intellectual worlds of these three religious traditions. Although the interaction between philosophy and religious thought continued in a variety of forms also after the Enlightenment's critique of religion, this critique transformed their relationship in a fundamental way, and for this reason will be used to delimit the chronological scope of the program. During the period in question, the impact of Greek philosophy on theologians, philosophers, and mystics within Judaism, Christianity, and Islam determined often in a decisive way—both positively and negatively—the interpretation of their Holy Scriptures, and their understanding of crucial religious concepts such as God, creation, revelation, providence, divine law, and the origin of evil. The interdisciplinary approach takes into account that the history of the encounter in question crossed the linguistic, cultural, and religious boundaries that define the areas of the traditional academic disciplines. This approach permits the student to pursue the development of a philosophical or religious concept from its origin through the different historical and geographical contexts in which it was received by Jewish, Christian, and Muslim thinkers.

In order to achieve its goal, the program focuses on (i) the acquisition of relevant languages (Greek, Latin, Arabic, Hebrew); (ii) the history of Ancient, Medieval, and Early Modern Philosophy; (iii) the Holy Scriptures and the history of Judaism, Christianity, and Islam; (iv) the reception and transformation of philosophical ideas in Jewish, Christian, and Islamic thought; and (v) the multiple points of contact among the different traditions of religious thought.

The program provides excellent preparation for graduate studies in Philosophy (with the appropriate choice of electives, or in combination with a minor in Philosophy), in Religious Studies and, with the relevant language component, in Islamic Studies and Jewish Studies as well. Students wishing to pursue graduate studies in a particular discipline should consult about specific requirements with a faculty member of the corresponding department at McGill.

3.10.40.3 Philosophy and Western Religions (PHWR) Faculty

Program Committee Chair

Carlos Fraenkel; B.A., M.A., Ph.D.(Free Univ., Berlin) (*Philosophy and Jewish Studies*)

Program Committee

E. Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.) (*Jewish Studies*)

M. Deslauriers; B.A.(McG.), M.A., Ph.D.(Tor.) (*Philosophy*)

D. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.) (*Religious Studies*)

I. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.) (*Religious Studies*)

T. Kirby; B.A.(KCNS), M.A., D.Phil.(Oxf.) (*Religious Studies*)

B. Levy; B.A., M.A., B.R.E.(Yeshiva), Ph.D.(NYU) (*Religious Studies*)

S. Menn; M.A., Ph.D.(Chic.), M.A., Ph.D.(Johns Hop.) (*Philosophy*)

G. Oegema; B.A., Th.D.(Vrije, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen) (*Religious Studies*)

C. Potworowski; B.A.(C'dia), M.A., Ph.D.(St. M. Coll, Tor.) (*Philosophy*)

R. Wisnovsky; B.A.(Yale), M.A., Ph.D.(Princ.) (*Islamic Studies*)

3.10.40.4 Bachelor of Arts (B.A.) - Minor Concentration Philosophy and Western Religions (18 credits)

NOTE: THE MINOR CONCENTRATION IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

Students will benefit most from this Minor concentration if they combine it with programs in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

Required Course (3 credits)

RELG 307 (3) Bible, Quran & Interpretations

Complementary Courses (15 credits)

15 credits selected as follows:

Students must complete 6 credits from the course lists for any two of the three categories below and 3 credits from the course list for the remaining category:

Philosophy and Western Religions

History of Philosophy

Jewish, Christian, and Islamic Thought

Philosophy and Western Religions

3-6 credits from:

Note: Students are strongly encouraged to take both PHWR 300 and PHWR 301.

PHWR 300 (3) Philosophy & Western Religions 1

PHWR 301 (3) Philosophy & Western Religions 2

History of Philosophy

3-6 credits, at least one of the following:

PHIL 354 (3) Plato

PHIL 355 (3) Aristotle

Students completing 6 credits in the History of Philosophy category, may select 3 credits from the following:

CLAS 415 (3) Advanced Latin: Oratory

CLAS 426 (3) Advanced Greek: Philosophy

PHIL 356 (3) Early Medieval Philosophy

PHIL 357 (3) Late Medieval and Renaissance Philosophy

PHIL 360 (3) 17th Century Philosophy

PHIL 452 (3) Later Greek Philosophy

Jewish and Christian Thought

3-6 credits from:

JWST 261 (3) History of Jewish Philosophy & Thought

JWST 337 (3) Jewish Philosophy and Thought 1

JWST 338 (3) Jewish Philosophy and Thought 2

JWST 358 (3) Topics in Jewish Philosophy 1

JWST 359 (3) Topics in Jewish Philosophy 2

JWST 474 (3) Maimonides' Mishneh Torah

JWST 543 (3) Maimonides as Parshan

JWST 562 (3) Medieval Islamic and Jewish Philosophy

RELG 334 (3) Christian Thought and Culture

RELG 341 (3) Introduction: Philosophy of Religion

RELG 423 (3) Reformation Thought

RELG 439 (3) Religious Dialogues

RELG 532 (3) History of Christian Thought 1

RELG 533 (3) History of Christian Thought 2

3.10.40.5 Bachelor of Arts (B.A.) - Major Concentration Philosophy and Western Religions (36 credits)

NOTE: THE MAJOR CONCENTRATION IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

The Major Concentration Philosophy and Western Religions has an option without a language requirement (Stream A), and one with a language requirement (Stream B). The latter was designed for students who wish to acquire the linguistic skills allowing them to read and research source texts in the original languages. Students will benefit most from the Major concentration if they combine it with a program in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

Students are strongly encouraged to consult an adviser each year to devise a suitable course combination.

Required Course (3 credits)

RELG 307 (3) Bible, Quran & Interpretations

Complementary Courses (33 credits)

33 credits selected as follows:

24-30 credits from Stream A (without a language requirement) or Stream B (with a language requirement) as specified under "Stream Requirements" and

3-9 credits of Philosophy and Western Religions (PHWR) courses from:

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

Students are strongly encouraged to take both PHWR 300 and PHWR 301.

Stream Requirements

Stream A: 24-30 credits selected as follows:

9-12 credits from the History of Philosophy course list.

3-6 credits from the Scriptures and History of Western Religious Traditions course list.

9-12 credits from the Jewish, Christian, and Islamic Thought course list.

Stream B: 24-30 credits selected as follows:

6-9 credits from the History of Philosophy course list.

0-3 credits from the Scriptures and History of Western Religious Traditions course list.

6-9 credits from the Jewish, Christian, and Islamic Thought course list.

12-15 credits from the Languages (Arabic, Greek, Hebrew, or Latin) course list.

Stream A and B - History of Philosophy

Stream A: Students take 9-12 credits from the History of Philosophy course list below.

Stream B: Students take 6-9 credits from the History of Philosophy course list below.

At least one of:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

At least one of:

PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy

Remaining credits, if any, from:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy

Stream A and B - Scriptures and History of the Western Religious Traditions

Stream A: Students take 3-6 credits from the Scriptures and History of the Western Religious Traditions course list below.

Stream B: Students take 0-3 credits from the Scriptures and History of the Western Religious Traditions course list below.

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 320	(3)	Scripture and Catholicism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 506	(3)	Islam: Later Developments
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 310	(3)	Believers, Heretics and Critics
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 523	(3)	Ancient Bible Interpretation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 539	(3)	Biblical Interpretation 1
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 575	(3)	Topics in Parshanut
RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1

RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Stream A and B - Jewish and Christian Thought

Stream A: Students take 9-12 credits from the Jewish and Christian course list below with a maximum of 6 credits selected from any one group.

Stream B: Students take 6-9 credits from the Jewish and Christian Thought course list below with a maximum of 6 credits selected from any one group.

Jewish Studies (JWST)

JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Religious Studies (RELG)

RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Stream B - Languages

Stream B (only): Students take 12-15 credits (two years: 12 credits, or in the case of Arabic, 15 credits) in one language (Arabic, Greek, Hebrew, or Latin) from the list below.

Arabic, ISLA courses:

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

Greek, CLAS and RELG courses:

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek

Hebrew, JWST and RELG courses:

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew

Latin, CLAS courses:

CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 316	(3)	Intermediate Latin: Medieval

3.10.40.6 Bachelor of Arts (B.A.) - Honours Philosophy and Western Religions (60 credits)

NOTE: THE HONOURS IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

The Honours Philosophy and Western Religions program was designed for students who wish (i) to explore in depth the intertwined intellectual worlds of Judaism, Christianity, and Islam, and the interaction between philosophy and religion from Antiquity to the Enlightenment and (ii) to acquire the linguistic and conceptual tools allowing them to read source texts in the original languages, and to conduct research in the areas investigated by the interdisciplinary program. Students are encouraged to complete, in addition, a minor concentration in one of the languages relevant to the academic field.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Students are strongly encouraged to consult an adviser each year to devise a suitable course combination.

Students who combine the Honours program with a minor concentration in one of the languages relevant to the academic field, or who have acquired proficiency in one language elsewhere may replace 6 credits of the language requirements through additional credits in other segments of the program.

Required Course (3 credits)

RELG 307	(3)	Bible, Quran & Interpretations

Complementary Courses (57 credits)

57 credits selected as follows:

Philosophy and Western Religions (PHWR)

6-9 credits of Philosophy and Western Religions (PHWR) courses from:

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

Students are strongly encouraged to take both PHWR 300 and PHWR 301.

History of Philosophy

9-12 credits from the History of Philosophy course list below.

At least one of:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

At least one of:

PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 360	(3)	17th Century Philosophy

Remaining credits, if any, from:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy

Scriptures and History of the Western Religious Traditions

3-6 credits from the Scriptures and History of the Western Religious Traditions course list below.

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 320	(3)	Scripture and Catholicism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000

HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 506	(3)	Islam: Later Developments
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 310	(3)	Believers, Heretics and Critics
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 523	(3)	Ancient Bible Interpretation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 539	(3)	Biblical Interpretation 1
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 575	(3)	Topics in Parshanut
RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Jewish, Christian, and Islamic Thought

9-12 credits from the Jewish, Christian, and Islamic Thought course list below with a maximum of 6 credits selected from any one group.

Jewish Studies (JWST)

JWST 261	(3)	History of Jewish Philosophy & Thought

JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Religious Studies (RELG)

RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Languages

18-21 credits (two years: 12 credits, or in the case of Arabic, 15 credits) in one language (Arabic, Greek, Hebrew, or Latin)

and

6-9 credits (one year: 6 credits, or in the case of Arabic, 9 credits) in a second language relevant to the program selected from the language lists below.

Arabic, ISLA courses:

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

Greek, CLAS and RELG courses:

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek

Hebrew, JWST and RELG courses:

JWST 220D1	(3)	Introductory Hebrew

JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew

Latin, CLAS courses:

CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 316	(3)	Intermediate Latin: Medieval

Specialized Research Skills

6 credits of courses in specialized skills for conducting research, chosen from:

PHWR 400	(3)	Joint Honours/Honours Tutorial
PHWR 401	(3)	Honours Thesis Tutorial 1
PHWR 402	(3)	Honours Thesis Tutorial 2
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

3.10.40.7 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy and Western Religions (36 credits)

NOTE: THE JOINT HONOURS COMPONENT IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection.

The Joint Honours Component Philosophy and Western Religions was designed for students who wish (i) to explore the intertwined intellectual worlds of Judaism, Christianity, and Islam, and the interaction between philosophy and religion from Antiquity to the Enlightenment and (ii) to acquire the linguistic and conceptual tools allowing them to read source texts in the original languages, and to conduct research in the areas investigated by the interdisciplinary program. Students will benefit most from the Joint Honours if they combine it with a program in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Students are strongly encouraged to consult an adviser each year to devise a suitable course combination.

Required Course (3 credits)

RELG 307	(3)	Bible, Quran & Interpretations

Complementary Courses (33 credits)

33 credits selected as follows:

Philosophy and Western Religions (PHWR)

3-9 credits of Philosophy and Western Religions (PHWR) courses from:

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2

PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

Students are strongly encouraged to take both PHWR 300 and PHWR 301.

History of Philosophy

3-6 credits from the History of Philosophy course list below.

At least one of:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Remaining credits, if any, from:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy

Scriptures and History of the Western Religious Traditions

0-3 credits from the Scriptures and History of the Western Religious Traditions course list below.

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 320	(3)	Scripture and Catholicism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 506	(3)	Islam: Later Developments
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 310	(3)	Believers, Heretics and Critics
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 523	(3)	Ancient Bible Interpretation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 539	(3)	Biblical Interpretation 1
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 575	(3)	Topics in Parshanut

RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Jewish and Christian Thought

6 credits from the Jewish and Christian Thought course list below.

Jewish Studies (JWST)

JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Religious Studies (RELG)

RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Languages

12-15 credits (two years: 12 credits, or in the case of Arabic, 15 credits) in one language (Arabic, Greek, Hebrew, or Latin) selected from the language course lists below.

Arabic, ISLA courses:

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

Greek, CLAS and RELG courses:

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek

Hebrew, JWST and RELG courses:

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew

Latin, CLAS courses:

CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 316	(3)	Intermediate Latin: Medieval

Specialized Research Skills

3 credits of courses in specialized skills for conducting research, chosen from:

PHWR 400	(3)	Joint Honours/Honours Tutorial
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

3.10.41 Political Science (POLI)

3.10.41.1 Location

Stephen Leacock Building, Room 414
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Telephone: 514-398-4800

Fax: 514-398-1770

Website: www.mcgill.ca/politicalscience

3.10.41.2 About Political Science

Students wishing to do an Honours degree or a major or minor concentration in Political Science should consult with a Political Science departmental adviser each year in order to devise a suitable program. Proper selection of courses is required if a student wants to graduate on time.

3.10.41.3 Procedure for New Students

All new students entering the Political Science program (including minor concentrations) are strongly urged to attend an information meeting scheduled at the end of August. The date and location of the meeting will be posted on the web. Attendance will help students prepare for their session with an adviser. It is the student's responsibility to be in Montreal for the meeting. The following brochures are available on the web: *Major and Honours Programs in Political Science* and *Minor Concentrations in Political Science*. It is essential to read through these prior to attending the information meeting.

3.10.41.4 For All Political Science Students

The brochures *Major and Honours Programs in Political Science* and *Minor Concentrations in Political Science* are both available in the Department as well as on the web. Students wishing to have courses taken at other universities counted as satisfying program requirements must bring copies of their transcripts and course syllabi to the Director of the Major or Honours program or the Director of Undergraduate Studies. Students are not accepted into the Honours program in Political Science until their second year in Political Science; an exception is made for those in Joint Honours programs.

As course and personnel changes may have occurred after this publication was prepared, students should not use it to plan their program of studies without first consulting the Department office for updated information.

3.10.41.5 Political Science (POLI) Faculty

Chair

Hudson Meadwell

Emeritus Professors

Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)

Blema Steinberg; B.A.(McG.), M.A.(C'nell), Ph.D.(McG.)

Professors

Mark R. Brawley; B.A.(Calif.), M.A., Ph.D.(Calif.-LA)

Michael Brecher; B.A.(McG.), M.A., Ph.D.(Yale), F.R.S.C. (*R.B. Angus Professor of Economics and Political Science*) (on leave Winter 2014)

Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)

Elisabeth Gidengil; B.A.(LSE), M.A.(NYU), Ph.D.(McG.)

Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)

Philip D. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.)

T.V. Paul; B.A.(Kerala), M.Phil.(J. Nehru U.), M.A., Ph.D.(Calif.-LA) (*James McGill Professor*)

Filippo Sabetti; B.A.(McM.), M.A., Ph.D.(Ind.)

Richard Schultz; B.A.(York), M.A.(Manc.), Ph.D.(York) (*James McGill Professor*)

Harold M. Waller; M.S.(N'western), Ph.D.(G'town)

Associate Professors

Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.)

Associate Professors

Éric Bélanger; B.A., M.A.(Laval), Ph.D.(Montr.)
 Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)
 Erik Kuhonta; B.A.(Penn.), M.A., Ph.D.(Princ.)
 Jacob Levy; A.B.(Brown), M.A., Ph.D.(Princ.)
 Catherine Lu; B.A., M.A.(Br. Col.), Ph.D.(Tor.)
 Antonia Maioni; M.A.(Car.), Ph.D.(N'western)
 Hudson Meadwell; B.A.(Manit.), M.A., Ph.D.(Duke)
 Khalid Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.)
 Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*William Dawson Scholar*)
 Stuart Soroka; B.A.(Qu.), M.A.(Car.), Ph.D.(Br. Col.) (*William Dawson Scholar*)
 Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.)
 Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)
 Christina Tarnopolsky; B.A.(Tor.), M.A., Ph.D.(Chic.)

Assistant Professors

Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin)
 Victor Muñiz Fraticelli; B.A.(C'nell), J.D.(Puerto Rico), M.A., Ph.D.(Chic.)
 Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town)
 Maria Popova; B.A.(Dart.), Ph.D.(Harv.)
 William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)
 Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.)
 Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)

Assistant Professor (Non-Tenure Track)

Jason Ferrell; M.A.(Tulane), Ph.D.(McG.)

3.10.41.6 Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)

This program may be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits selected as follows:

6-9 credits at the 200 level from at least two of four fields:

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise

Comparative Politics

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

9-12 credits above the 200 level from at least two of four fields:

Canadian Politics

POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution

Comparative Politics (Developed and Developing)

POLI 315	(3)	Approaches to Political Economy
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 338	(3)	Developing Areas/Topics 1
POLI 339	(3)	Comparative Developed: Topics 1
POLI 340	(3)	Developing Areas/Middle East

POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 369	(3)	Politics of Southeast Asia
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 435	(3)	Identity and Inequality
POLI 437	(3)	Politics in Israel
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 474	(3)	Inequality and Development
POLI 475	(3)	Social Capital in Comparative Perspective

International Relations

POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union

Political Theory

POLI 333	(3)	Western Political Theory 1

POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2

Other political sciences courses may be used to satisfy this Minor concentration subject to approval.

3.10.41.7 Bachelor of Arts (B.A.) - Minor Concentration Political Science: Canada/Québec (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits of complementary courses selected with the specifications described below.

* Note: Courses marked with an asterisk ("*") are on Québec.

6 credits at the introductory level from:

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226*	(3)	La vie politique québécoise

12 credits, of which 3 credits must be on Québec; no more than 6 credits may be taken in courses outside the Department of Political Science (courses with a subject code other than "POLI"); and no more than 6 credits may be taken at the 200 level from:

ANTH 306	(3)	Native Peoples' History in Canada
CANS 200	(3)	Introduction to the Study of Canada
CANS 304*	(3)	Nationalism in Canada
CANS 413*	(3)	Canada and Quebec Seminar
ECON 308	(3)	Governmental Policy Towards Business
FREN 329*	(3)	Civilisation québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303*	(3)	History of Quebec
HIST 322	(3)	Canada: American Presence since 1939
HIST 333*	(3)	Natives and French
HIST 334*	(3)	History of New France
HIST 353*	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945

HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403*	(3)	History of Quebec Institutions
POLI 226*	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336*	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 426*	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution

3.10.41.8 Bachelor of Arts (B.A.) - Minor Concentration Comparative Politics (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Course (3 credits)

POLI 211	(3)	Comparative Government and Politics

Complementary Courses (15 credits)

15 credits

3 credits from:

POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction

12 credits from:

POLI 315	(3)	Approaches to Political Economy
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States

POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 338	(3)	Developing Areas/Topics 1
POLI 339	(3)	Comparative Developed: Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 369	(3)	Politics of Southeast Asia
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 435	(3)	Identity and Inequality
POLI 437	(3)	Politics in Israel
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 474	(3)	Inequality and Development
POLI 475	(3)	Social Capital in Comparative Perspective

3.10.41.9 Bachelor of Arts (B.A.) - Minor Concentration International Relations (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (6 credits)

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour

Complementary Courses (12 credits)

12 credits selected as follows:

Thematic Courses

6 credits must be from Thematic courses:

POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace

POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union

Regional Courses

Remaining credits may also be from Regional courses:

POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 346	(3)	American Foreign Policy
POLI 349	(3)	Foreign Policy: Asia
POLI 352	(3)	International Policy/Foreign Policy: Africa

3.10.41.10 Bachelor of Arts (B.A.) - Minor Concentration Political Economy (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from introductory political science courses:

POLI 211	(3)	Comparative Government and Politics
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations

3 credits from introductory economics courses:

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications

Note: Students who take or have taken ECON 230D1/D2 or ECON 250D1/D2 are deemed to have fulfilled the economics requirement. However, the 3 complementary economics credits must be replaced with an additional political science course from the list below.

12 credits from:

POLI 243	(3)	International Politics of Economic Relations
POLI 315	(3)	Approaches to Political Economy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 354	(3)	Approaches to International Political Economy
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 451	(3)	The European Union

3.10.41.11 Bachelor of Arts (B.A.) - Minor Concentration Political Theory (18 credits)

This program offers a specialization in the subfield of political theory and allows students the opportunity to draw on closely-related courses in moral and political philosophy offered by the Department of Philosophy. Students who have completed the appropriate introductory work in the disciplines of classics, economics, history, or sociology may take specified courses in these disciplines toward the program requirements.

Complementary Courses (18 credits)

18 credits selected as follows:

Category A

9 credits from Category A.

3 credits at the introductory level from:

PHIL 240	(3)	Political Philosophy 1
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

At least 6 credits selected from:

POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4

Category B

9 credits from Category B.

Note: A course can only be used once in the program; a course used toward Category A may not also be used toward Category B.

CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 426	(3)	Advanced Greek: Philosophy
ECON 334	(3)	History of Economic Doctrines
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
PHIL 334	(3)	Ethical Theory
PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 348	(3)	Philosophy of Law 1
PHIL 442	(3)	Topics in Feminist Theory
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory
PHIL 454	(3)	Ancient Moral Theory
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1

POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
SOCI 330	(3)	Sociological Theory

3.1041.12 Bachelor of Arts (B.A.) - Minor Concentration Politics, Law and Society (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (3 credits)

POLI 211	(3)	Comparative Government and Politics

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada

3 credits from:

POLI 330	(3)	Law and Courts in Europe
POLI 378	(3)	The Canadian Judicial Process

9 credits selected from the courses below with at least 6 credits from non-political science courses (subject code other than "POLI"), not more than 3 credits from communication studies ("COMS") courses, and no more than 3 credits at the 200 level:

ANTH 222	(3)	Legal Anthropology
COMS 355	(3)	Media Governance
COMS 435	(3)	Advanced Issues in Media Governance
ISLA 383	(3)	Central Questions in Islamic Law
JWST 201	(3)	Jewish Law
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
PHIL 348	(3)	Philosophy of Law 1
POLI 321	(3)	Issues: Canadian Public Policy
POLI 330	(3)	Law and Courts in Europe
POLI 337	(3)	Canadian Public Administration
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada
POLI 478	(3)	The Canadian Constitution
PRV2 500*	(3)	Children and the Law
SOCI 388	(3)	Crime
SOCI 488	(3)	Punishment and Prisons

* Note: To register for the course offered by the Faculty of Law, PRV2 500, a student must apply to the Faculty of Law as a Special Student and provide the following: a curriculum vitae, a copy of his/her academic record, and the reason for wanting to take the course.

3.10.41.13 Bachelor of Arts (B.A.) - Minor Concentration South Asia (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (6 credits)

POLI 227	(3)	Developing Areas/Introduction
POLI 322	(3)	Political Change in South Asia

Complementary Courses (12 credits)

12 credits selected as follows:

3-6 credits from:

ANTH 327	(3)	Peoples of South Asia
RELG 252	(3)	Hinduism and Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 454	(3)	Modern Hindu Thought

6-9 credits from:

ANTH 212	(3)	Anthropology of Development
ANTH 327	(3)	Peoples of South Asia
ISLA 506	(3)	Islam: Later Developments
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 371	(3)	Ethics of Violence/Non-Violence
SOCI 254	(3)	Development and Underdevelopment

3.10.41.14 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)**Complementary Courses (36 credits)**

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 15 of the 36 credits may be at the 200 level.

In the final year, no course used toward the program requirements may be below the 300 level.

Only one 500-level Political Science Honours Seminar may be taken and only in the final year.

Course lists for each field of political science are provided below.

Advising Information

In the first year of the program (U1), students are advised to select 12-15 credits from at least three of the four main fields of political science. U1 students should normally take courses at the 200 level only. However, those in their second term of U1 may, with the approval of their program adviser, take one 300-level course provided that they have a B+ average in their first term courses and have completed the 200-level prerequisite for the course.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada

POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 437	(3)	Politics in Israel

POLI 451	(3)	The European Union
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 524	(3)	Seminar: Developed Areas

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 561	(3)	Seminar: Political Theory

3.10.41.15 Bachelor of Arts (B.A.) - Honours Political Science (54 credits)

The Honours Political Science program consists of 54 credits, of which 48 must be in Political Science. The remaining 6 credits must be in related social studies disciplines and must be taken at the 300 or 400 level.

To enter, remain and graduate in Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 in general.

To be awarded First Class Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide," which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Honours at graduation, students must be registered in the Honours program in their final year. At graduation, students' Honours standing will be determined by their overall record in the Honours program.

Students may enter the Honours program at the start of U2.

Required Course (3 credits)

POLI 311	(3)	Techniques of Empirical Research

Complementary Courses (51 credits)

51 credits of complementary courses selected with the following specifications.

45 credits of Political Science (POLI) and 6 credits at the 300 or 400 level in related disciplines* (e.g., Anthropology (ANTH), Canadian Studies (CANS), East Asian Studies (EAST), Economics (ECON), Geography (GEOG), History (HIST), Middle East Studies (MEST), Philosophy (PHIL), Psychology (PSYC), Quebec Studies (QCST), Sociology (SOC)).

Note: Students who believe that a case can be made for certain courses not included above, may request approval from the Honours Adviser by submitting a written appeal. With respect to Interdisciplinary programs (Canadian Studies, East Asian Studies, Middle East Studies, Quebec Studies etc.) only courses with the program's subject code (CANS, EAST, MEST, QCST) are eligible to be counted toward the Honours program.

A maximum of 18 credits may be at the 200 level.

At least 3 credits must be taken in Political Theory (see the course list for this field below).

No more than one-half of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, Political Theory). However, if the field is Comparative Politics and if courses are taken in both Developed Areas and Developing Areas, the maximum is 30 credits. Refer to the lists below for course choices in each field.

12 credits of political science must be at the 400 level or above including one 500-level Honours Seminar or a 600-level Graduate Seminar. This one-quarter rule may be satisfied by taking one 400-, one 500-, and one 600-level course. Refer to the lists below for course choices at the 400 and 500 levels in each field. Consult the Department website (<http://www.mcgill.ca/politicalscience/courses-0/graduate/>) for 600-level course choices.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World

POLI 432	(3)	Selected Topics: Comparative Politics
POLI 437	(3)	Politics in Israel
POLI 451	(3)	The European Union
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 524	(3)	Seminar: Developed Areas

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding

POLI 451	(3)	The European Union
POLI 575	(3)	Seminar: International Politics

Political Theory

* Note: Courses that may be used to complete the requirement for 3 credits in Political Theory are marked with an asterisk ("*") in the list below.

POLI 231*	(3)	Introduction to Political Theory
POLI 232*	(3)	Modern Political Thought
POLI 333*	(3)	Western Political Theory 1
POLI 334*	(3)	Western Political Theory 2
POLI 362*	(3)	Political Theory and International Relations
POLI 363*	(3)	Contemporary Political Theory
POLI 364*	(3)	Radical Political Thought
POLI 365*	(3)	Democratic Theory
POLI 366*	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433*	(3)	History of Political/Social Theory 3
POLI 434*	(3)	History of Political/Social Theory 4
POLI 459*	(3)	Topics in Political Theory 2
POLI 561*	(3)	Seminar: Political Theory

3.104116 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year. At graduation, students' Joint Honours standing will be determined by their overall record in the Joint Honours program. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Students may enter the Joint Honours program in U1.

Required Course (3 credits)

POLI 311 is required except for those students whose other Joint Honours component is either Economics or Sociology. These students may be authorized by the Department to take an equivalent social science methods course in Economics or Sociology. If so, they must take 3 credits in Political Theory. Refer to the Political Theory course list below for appropriate courses.

POLI 311	(3)	Techniques of Empirical Research

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications.

No more than one-half (18 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, Political Theory). However, if the field is Comparative Politics and if courses are taken in both Developed Areas and Developing Areas, the maximum is 21 credits. Refer to the lists below for course choices in each field.

One quarter (9 credits) of political science credits must be at the 400-level or above including one 500-level Honours Seminar or one 600-level Graduate Seminar. This one-quarter rule may be satisfied by taking a 500-level Honours Seminar and a 600-level Graduate Seminar. Refer to the lists below for course

choices at the 400 and 500 levels in each field. Consult the Department website (<http://www.mcgill.ca/politicalscience/courses/graduate/>) for 600-level course choices.

No more than 15 credits of political science may be at the 200 level. Students may not take 200-level political science courses in their final year.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism

POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 437	(3)	Politics in Israel
POLI 451	(3)	The European Union
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 524	(3)	Seminar: Developed Areas

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict

POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 575	(3)	Seminar: International Politics

Political Theory

* Note: Courses marked with an asterisk ("*") in the list below may be used to complete the 3 credits of Political Theory by those students exempted from POLI 311.

POLI 231*	(3)	Introduction to Political Theory
POLI 232*	(3)	Modern Political Thought
POLI 333*	(3)	Western Political Theory 1
POLI 334*	(3)	Western Political Theory 2
POLI 362*	(3)	Political Theory and International Relations
POLI 363*	(3)	Contemporary Political Theory
POLI 364*	(3)	Radical Political Thought
POLI 365*	(3)	Democratic Theory
POLI 366*	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433*	(3)	History of Political/Social Theory 3
POLI 434*	(3)	History of Political/Social Theory 4
POLI 459*	(3)	Topics in Political Theory 2
POLI 561*	(3)	Seminar: Political Theory

3.10.42 Psychology (PSYC)

3.10.42.1 Location

Stewart Biology Building, Room W8/1
1205 Dr. Penfield Avenue
Montreal, Quebec H3A 1B1

Telephone: 514-398-6100
Fax: 514-398-4896
Email: info@psych.mcgill.ca
Website: www.psych.mcgill.ca

3.10.42.2 About Psychology

The Psychology Department offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of Psychology, refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.32: Psychology \(PSYC\)](#)*. Programs that may be taken by Arts students are described in this section, while those listed under the Faculty of Science may be taken by Science students only.



Note: The B.A. (or B.Sc.) with a major concentration or honours degree in Psychology is not a professional qualification. It does not qualify the individual to carry on professional work in psychology.

3.10.42.3 Information Meetings for New Students

All new students entering the Psychology undergraduate program are required to attend an information meeting prior to registration. Students planning to pursue a Bachelor of Arts, or a Bachelor of Arts and Science, with a major concentration in Psychology **must** attend one of these meetings. Newly admitted students from CEGEPs should attend the information session in June. There will be an identical information session in August for all other students, and for

any CEGEP students who could not attend the earlier meeting. Please check the Psychology Dept website for the specific dates at: www.psych.mcgill.ca/ugrad/ugradm.htm. Students accepted into the Bachelor of Science program must attend a different information meeting (for details, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > section 13.13.32: Psychology (PSYC)*). At this meeting, Paola Carvajal, the Academic Adviser, will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses. After this meeting, students will make appointments for individual advising sessions and fill out their Study Plan form for registration.

Entering students must bring their letter of acceptance and a copy of their collegial transcript(s). They will also need to have consulted this publication and a preliminary Class Schedule before their individual advising session. Students will also find the *Psychology Department Handbook* helpful. It contains more detailed descriptions of Psychology courses and provides guidelines for how students might pursue particular areas of interest. The handbook is available on the Department website: www.psych.mcgill.ca/ugrad/ugradm.htm.

Students entering the Psychology program in January are strongly encouraged to visit the Academic Adviser, Paola Carvajal, in early December to clarify their course selections.

3.10.42.4 Bachelor of Arts (B.A.) - Minor Concentration Psychology (18 credits)

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This Minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.

Required Background

Students are required to complete a course in Introductory Psychology either at the collegial or freshman level. Students who have not previously completed CEGEP Psychology 350-101 or 350-102 or equivalent are required to complete PSYC 100 during the first year of study at McGill.

Program Prerequisite

PSYC 100	(3)	Introduction to Psychology

Complementary Courses (18 credits)

6 credits selected from:

PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

12 credits in Psychology at the 300 level or above.

3.10.42.5 Bachelor of Arts (B.A.) - Minor Concentration Behavioural Science (18 credits)

Restricted to students registered in the Major Concentration Psychology.

Students who wish to go on to graduate training in Psychology, and those who may wish to apply for membership in the Ordre des Psychologues du Québec (once the additional graduate requirements of the Ordre have been completed), are advised to take the following supplementary Minor Concentration Behavioural Science.

Note that this counts as a second minor concentration, and is open only to students registered in the Major Concentration Psychology. A first minor concentration must also be completed in a discipline other than Psychology.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

3 credits in Psychology at the 400 or 500 level

9 credits at the 300 level or above from one or more of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2

PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations

PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 493	(3)	Special Topics Seminar 2
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.42.6 Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)

The Major Concentration Psychology does not provide sufficient undergraduate background to enable students to apply for membership in the Ordre des Psychologues du Québec, even once the additional graduate requirements of the Ordre have been completed. Students who are interested in practising psychology in Quebec are advised to also complete the Minor Concentration Behavioral Science.

Recommended Background for Quebec CEGEP Students

Students planning to apply to a Bachelor of Arts degree with a Major Concentration Psychology or a Bachelor of Arts and Science degree with a Major Concentration Psychology are advised to take courses in Introductory Psychology and Human Biology at the collegial level.

Program Prerequisites

Students planning to enter the Major Concentration Psychology program are required to complete courses in Introductory Psychology and Human Biology at the collegial level or in their first year of study at McGill University.

Students who have completed 350-101 or 350-102 in CEGEP are exempt from the PSYC 100 requirement.

Bachelor of Arts students are required to complete BIOL 115 or BIOL 111 or BIOL 112 during their first year. Students who have completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP are exempt from the Biology requirement.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students exempt from PSYC 204 replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

Bachelor of Arts and Science students exempt from PSYC 204 replace this course with 3 credits in Psychology (PSYC) at the 300 level or above.

PSYC 204*	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

** Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above apart from PSYC 305 in their U1 year to be eligible for admission. Students who have been exempted from PSYC 204 are advised to complete PSYC 305 in U1. All students must complete a minimum of 27 graded credits in U1 to be eligible for admission to the Honours program. For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

12 credits in Psychology with at least 6 credits at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition

PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology

PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 493	(3)	Special Topics Seminar 2
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.42.7 Bachelor of Arts (B.A.) - Joint Honours Component Psychology (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students should note that awarding of the Joint Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 482. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in the required honours courses (i.e: PSYC 380D1/D2, PSYC 482). "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in the required honours courses.

In addition to the requirements of the Joint Honours Component Psychology, students must also complete all requirements of their other Joint Honours component.

Admission to the Joint Honours component is selective. Students with a cumulative grade point average of 3.00 or higher are eligible to apply; however, normally only students with a U1 GPA above 3.50 are admitted. Students must complete a minimum of 27 graded credits in two terms in their U1 year to be eligible to apply. Once in the Joint Honours component, students must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Students in the Joint Honours component are encouraged to complete a minimum of 27 graded credits per academic year. This is also the minimum number of credits required to be eligible for fellowships and awards.

Students may apply to the Joint Honours component upon completion of the U1 year. Eligible students must have completed the following Psychology courses: PSYC 204, PSYC 211, PSYC 212, PSYC 213 and PSYC 215. Students are advised to complete PSYC 305 in their U1 year.

Applications can be obtained from the Undergraduate Office of the Department of Psychology, Room N7/9A, Stewart Biological Sciences Building. The applications must be completed and returned to the Undergraduate Office by August 1 for September admission. Candidates will be informed of the Department's decision via email before classes begin in September.

Program Prerequisites

Students planning on entering the Joint Honours Component Psychology program are required to complete Introductory Psychology; a course in Human Biology is strongly recommended.

Students who have not previously completed Psychology 350-101 or 350-102 in CEGEP are required to register for PSYC 100 during their U1 year.

Bachelor of Arts students who have not completed one of Biology 101-301, 101-401, 101-911 or 101-921 in CEGEP should complete one of BIOL 115, BIOL 111 or BIOL 112 during their U1 year. Students who enter as Freshmen may take these courses in U0.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

U1 Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students will replace this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING) or Sociology (SOCI).

Bachelor of Arts and Science students will replace this requirement with 3 credits in Psychology at the 300-level or above.

** Note: PSYC 305 may be taken in U1 or U2.

PSYC 204*	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

U2 Required Courses (9 credits)

PSYC 380D1	(4.5)	Honours Research Project Seminar
PSYC 380D2	(4.5)	Honours Research Project Seminar

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar

Complementary Courses (6 credits)

3 credits in Psychology at the 300 level or above, and

3 credits in Psychology at the 400 or 500 level.

3.10.42.8 Bachelor of Arts (B.A.) - Honours Psychology (60 credits)

Honours Psychology prepares students for graduate study, and so emphasizes practice in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Admission to Honours is selective. Students with a cumulative grade point average of 3.00 or better are eligible to apply; since enrolment is limited the usual GPA for admission to this program is 3.50. Students must complete a minimum of 27 graded credits in two terms in their U1 year to be eligible to apply to

the Honours program. These credits must include: PSYC 204, PSYC 211, PSYC 212, PSYC 213, and PSYC 215. Students are advised to complete PSYC 305 in their U1 year to apply to the Honours program. Once in the Honours program, the student must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Students in the Honours program are encouraged to complete a minimum of 27 graded credits per academic year. This is also the minimum number of credits required to be eligible for fellowships and awards.

Applications can be obtained from the Undergraduate Office of the Department of Psychology, Room N7/9A, Stewart Biological Sciences Building. The applications must be completed and returned to the Undergraduate Office by the deadline stated on the application (generally before 1 August 1 for September admission). Candidates will be informed of the Department's decision via email before classes begin in September.

Students should note that awarding of the Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 482. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in the required honours courses, namely PSYC 380D1/PSYC 380D2, PSYC 482. "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in the required honours courses, namely PSYC 380D1/PSYC 380D2, PSYC 482. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Honours program in the Psychology Department. Students with particularly strong academic records may be admitted for the U3 year only on the basis of their marks and research experience. These students must complete all Honours program requirements.

Program Prerequisites

Students planning on entering the Honours Psychology program are required to complete Introductory Psychology at the collegial level or in their first year of study at McGill University. Students are also strongly encouraged to complete a course in Human Biology.

Students who have completed 350-101 or 350-102 in CEGEP are exempt from the PSYC 100 requirement.

Bachelor of Arts students should complete BIOL 115 or BIOL 111 or BIOL 112 during their first year, unless they have already completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

U1 Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students will replace this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

Bachelor of Arts and Science students will replace this requirement with 3 credits in Psychology at the 300 level or above.

** Note: PSYC 305 may be taken in U1 or U2.

PSYC 204*	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

U2 Required Courses (9 credits)

PSYC 380D1	(4.5)	Honours Research Project Seminar
PSYC 380D2	(4.5)	Honours Research Project Seminar

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar

Complementary Courses (30 credits)

30 credits of complementary courses with the following specifications:

12 credits to be selected from the list below and any Psychology course at the 500 level.

PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 495	(6)	Psychology Research Project 2
PSYC 496	(6)	Senior Honours Research 1
PSYC 497	(6)	Senior Honours Research 2
PSYC 498D1	(4.5)	Senior Honours Research
PSYC 498D2	(4.5)	Senior Honours Research

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from List A:

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques

PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

6 credits in Psychology from List B:

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

6 credits at the 300 level or above selected from the following disciplines:

Anthropology (ANTH), Linguistics (LING), Psychology (PSYC), or Sociology (SOCI).

3.10.43 Quebec Studies/Études sur le Québec (QCST)

3.10.43.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557
Fax: 514-398-1748
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/qcst

Adviser: Karin Bourgeois (*on leave*)
Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.43.2 Généralités : Études sur le Québec

Le Programme d'études sur le Québec veut favoriser la recherche et la formation multidisciplinaires en études québécoises.

Avec l'appui des départements, la concentration Mineur et la concentration Majeur en études sur le Québec sont constituées l'une et l'autre d'une suite agencée de cours ayant pour but de fournir un enseignement interdisciplinaire aussi complet que possible sur la société québécoise à l'intérieur d'un cadre canadien et international.

Sauf les cours Quebec Culture and Society (QCST 300), Travaux dirigés (QCST 472D1/QCST 472D2) et le séminaire Contemporary Issues in Quebec (QCST 440), les cours compris dans la concentration Majeur ou la concentration Mineur sont sous la responsabilité des divers départements. Pour connaître la description de ces cours et, le cas échéant, les conditions d'admission, l'étudiant(e) est donc invité(e) à se reporter aux autres sections de cette publication et, au besoin, à consulter les départements concernés, d'autant plus que tous les cours ne se donnent pas nécessairement à chaque année. Veuillez noter que les conseillers pédagogiques ou les directeurs de programmes peuvent suggérer l'inscription à un cours sans toutefois imposer ce choix. La décision finale revient à l'étudiant(e) en ce qui concerne l'inscription à un cours en autant que l'étudiant(e) répond aux conditions d'admission pour ce cours.

Le titre de chaque cours indique s'il est donné en français ou en anglais, mais les travaux et examens peuvent toujours être rédigés dans l'une ou l'autre de ces deux langues (sauf au Département de langue et littérature françaises, où le français est de rigueur).

3.10.43.3 About Quebec Studies

The Quebec Studies program is intended to stimulate interdisciplinary studies and exchanges centering on Quebec society.

With departmental support, a major concentration and a minor concentration are offered, both of which consist of a coherent series of courses providing an interdisciplinary perspective on Quebec society in a Canadian and an international context.

Except for the general course Quebec Culture and Society (QCST 300), the Tutorial (QCST 472D1/QCST 472D2), and the seminar Contemporary Issues in Quebec (QCST 440), courses included in the Major concentration or Minor concentration are the responsibility of the departments. To obtain a complete description of these courses and the admission requirements (where applicable), students should read the relevant sections of this publication and, if necessary, consult with the departments concerned, bearing in mind that not all courses are available in any given year. Please take note that an adviser or a director of a program can recommend registration in a course without imposing this choice. The final decision belongs to the student if the student has successfully completed the course prerequisites.

The title of each course indicates whether it is given in French or English, but term papers and exams can be written in either of these two languages (except in the French Language and Literature Department, where French is the rule).

3.10.43.4 Quebec Studies/Études sur le Québec (QCST) Faculty

Director

TBA

Coordinator

Stéphan Gervais (*Quebec Studies*)

Program Committee Chair

TBA

Program Committee

Arnaud Bernadet (*French Language and Literature*)

Alain Farah (*French language and Literature*)

Program Committee

Catherine Leclerc (*French Language and Literature*)

Emine Sarigollu (*Desautels Faculty of Management*)

William Straw (*Art History & Communication Studies*)

3.10.43.5 Bachelor of Arts (B.A.) - Minor Concentration Quebec Studies / La concentration Mineur en Études sur le Québec (18 credits)

La concentration Mineur en Études sur le Québec a pour but de donner à l'étudiant(e) une connaissance multidisciplinaire des réalités du Québec en complémentarité à sa propre discipline de spécialisation. Les étudiants poursuivant notamment une spécialisation en histoire, science politique, langue et littérature françaises ou en études canadiennes peuvent trouver dans cette formation plusieurs avantages.

La concentration Mineur en Études sur le Québec est convertible en concentration majeure.

The goal of the Minor Concentration Quebec Studies is to give students a multidisciplinary overview of Quebec realities. Students are encouraged to complete this program alongside their studies in History, Political Science, French Language and Literature, or Canadian Studies.

The Minor Concentration Quebec Studies may be expanded to the Major concentration.

Required Courses / Cours Obligatoires (6 credits)

De façon usuelle, les cours obligatoires (6 crédits) sont complétés selon la séquence suivante : QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 ou en U3. Les cours complémentaires (12 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (6 credits) are completed in the following order: QCST 300 (3 credits) in U1 and QCST 440 (3 credits) in U2 or in U3. The complementary courses (12 credits) can be completed in U1, U2, or U3.

QCST 300	(3)	Quebec Culture and Society
QCST 440	(3)	Contemporary Issues in Quebec

Complementary Courses / Cours Complémentaires (12 credits)

De ces 12 crédits, 6 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 6 des 12 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 12 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 12 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
POLI 226	(3)	La vie politique québécoise
POLI 336	(3)	Le Québec et le Canada

Complementary Course Lists / Listes des cours complémentaires

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples

Art History and Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Canadian Studies / Études sur le Canada

CANS 200	(3)	Introduction to the Study of Canada
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Issues in Native Studies
CANS 405	(3)	Canadian Studies Seminar 5

English / Anglais

ENGL 313	(3)	Canadian Drama and Theatre

Environment

ENVR 380	(3)	Topics in Environment 1

French Language and Literature / Langue et littérature françaises

FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 450	(3)	Thème de littérature québécoise
FREN 595	(3)	Séminaire avancé lettres françaises

History / Histoire

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 223	(3)	Natives of the Americas
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 335	(3)	Science and Medicine in Canada
HIST 353	(3)	History of Montreal
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 580D1	(3)	European and Native-American Encounters

Political Science / Science politique

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 342	(3)	Canadian Foreign Policy
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada

Sociology / Sociologie

SOCI 230	(3)	Sociology of Ethnic Relations

SOCI 475 (3) Canadian Ethnic Studies Seminar

3.10.43.6 Bachelor of Arts (B.A.) - Major Concentration Quebec Studies / La concentration Majeur en Études sur le Québec (36 credits)

La concentration Majeur en Études sur le Québec a pour but de donner à l'étudiant(e) une connaissance approfondie et multidisciplinaire des réalités du Québec. Les étudiants peuvent intégrer cette spécialisation en complémentarité avec plusieurs disciplines dont l'histoire, la science politique, la langue et littérature françaises ou les études canadiennes.

The goal of the Major Concentration Quebec Studies is to give students a comprehensive, multidisciplinary, and in-depth portrait of Quebec realities. Students are encouraged to complete this program by integrating it with disciplines such as History, Political Science, French Language and Literature, or Canadian Studies.

Required Courses / Cours Obligatoires (12 credits)

De façon usuelle, les cours obligatoires (12 crédits) sont complétés selon la séquence suivante : QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 et QCST 472D1/D2 (6 crédits) en U3. Les cours complémentaires (24 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (12 credits) are completed in the following order: QCST 300 (3 credits) in U1, QCST 440 (3 credits) in U2, and QCST 472D1/D2 (6 credits) in U3. The complementary courses (24 credits) can be completed in U1, U2, or U3.

QCST 300	(3)	Quebec Culture and Society
QCST 440	(3)	Contemporary Issues in Quebec
QCST 472D1	(3)	Tutorial/Travaux dirigés
QCST 472D2	(3)	Tutorial/Travaux dirigés

Complementary Courses / Cours Complémentaires (24 credits)

De ces 24 crédits, 12 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 12 des 24 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 24 credits, 12 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 12 of the 24 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
HIST 353	(3)	History of Montreal
POLI 226	(3)	La vie politique québécoise

Complementary Course Lists / Listes des cours complémentaires

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples

Canadian Studies / Études sur le Canada

CANS 200	(3)	Introduction to the Study of Canada
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Issues in Native Studies
CANS 405	(3)	Canadian Studies Seminar 5

English / Anglais

ENGL 313	(3)	Canadian Drama and Theatre

French Language and Literature / Langue et littérature françaises

FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 450	(3)	Thème de littérature québécoise
FREN 595	(3)	Séminaire avancé lettres françaises

History / Histoire

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 223	(3)	Natives of the Americas
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 335	(3)	Science and Medicine in Canada
HIST 353	(3)	History of Montreal
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 580D1	(3)	European and Native-American Encounters

Political Science / Science politique

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 342	(3)	Canadian Foreign Policy
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada

Sociology / Sociologie

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.44 Religious Studies (RELG)**3.10.44.1 Location**

William and Henry Birks Building
3520 University Street
Montreal, Quebec H3A 2A7

Telephone: 514-398-4121

Website: www.mcgill.ca/religiousstudies

3.10.44.2 Religious Studies Programs in Arts

Available within the Faculty of Arts are a major concentration and a minor concentration in World Religions, a major concentration in Scriptures and Interpretations, and a minor concentration in Scriptural Languages as well as an Honours and a Joint Honours program with two options: Western Religions and Asian Religions. These programs are administered by the Faculty of Arts and the general rules, regulations, and requirements of that Faculty apply to them.

Students interested in these programs can obtain information from the Faculty of Arts website at www.mcgill.ca/arts and the Religious Studies website, or from a Religious Studies B.A. adviser. For general information on Religious Studies programs, make an appointment to see an adviser by telephoning 514-398-4121 or visiting the Reception office in the Birks Building.

Admission to the B.A. program is granted according to criteria established by the Faculty of Arts.

Students interested in theology programs can find more information under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Religious Studies > Undergraduate > section 12.7.2: Bachelor of Theology (B.Th.)* and *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Religious Studies > Undergraduate > section 12.7.3: Master of Divinity (M.Div.)*.

3.10.44.3 Religious Studies Courses Available to Arts and Science Students

All courses listed in the Religious Studies section (RELG) are considered as courses in Arts and Science except for courses restricted to B.Th. or S.T.M. students and courses that require permission of the Chair of the B.Th. Committee.

3.10.44.4 Religious Studies (RELG) Faculty

Dean

Ellen B. Aitken

Emeritus Professors

Gregory B. Baum; B.A.(McM.), M.A.(Ohio), D.Th.(Fribourg)

Maurice Boutin; B.A., B.A., B.A.(Montr.), D.Th.(Munich)

Robert C. Culley; B.D.(Knox, Tor.), M.A., Ph.D.(Tor.)

Douglas J. Hall; B.A.(W. Ont.), M.Div., S.T.M., Th.D.(U.T.S., N.Y.), L.L.D.(Wat.), D.D.(Pres. Col.), D.D.(Qu.)

Joseph C. McLelland; B.A.(McM.), M.A.(Tor.), B.D.(Knox, Tor.), Ph.D.(Edin.), D.D.(Montr. Dio. Coll.; Knox, Tor.)

D. Runnalls; B.A.(Br. Col.), B.D.(McG.), Ph.D.(Tor.)

Frederik Wisse; Ing.(Utrecht), B.A., B.D.(Calvin, Mich.), Ph.D.(Claremont)

Katherine K. Young; B.A.(Vermont), M.A.(Chic.), Ph.D.(McG.)

Professors

Douglas B. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.) (*Christian Thought*)

W.J. Torrance Kirby; B.A.(KCNS), M.A., D.Phil.(Oxf.) (*Ecclesiastical History*)

G.S. Oegema; B.A., Th.D.(Vrije, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen) (*Biblical Studies*)

Arvind Sharma; B.A.(Allahabad), M.A.(Syrac.), M.T.S., Ph.D.(Harv.) (*Henry Birks Professor of Comparative Religion*)

Associate Professors

Ellen B. Aitken; A.B.(Harv.), M.Div.(University of the South), Th.D.(Harv.) (*Early Christian History and Literature*)

Lara Braitstein; B.A., M.A.(McG.) (*Indo-Tibetan Buddhism*)

Daniel Cere; B.A, M.A.(McG.), Ph.D.(C'dia) (*Religion, Ethics, and Public Policy*)

Gaëlle Fiasse; B.A., M.A., Ph.D.(Louvain-le-Neuve) (*Ethics and Religious Ethics*) (joint appt. with Department of Philosophy)

Ian H. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.) (*New Testament Studies*)

G. Victor Hori; B.A.(York), M.A.(Tor.), Ph.D.(Stan.) (*Japanese Religions*)

Patricia G. Kirkpatrick; B.A.(McG.), M.Th.(Lond.), D.Phil.(Oxf.), D.D.(Montr. Dio. Coll.) (*Old Testament Studies*)

Devesh Soneji; B.A.(Manit.), Ph.D.(McG.) (*South Asian Religion*)

Assistant Professor

Andrea M. Pinkney; B.A.(McG.), M.A.(Hawaii at Manoa), Ph.D.(Col.) (*South Asian Religions*)

Faculty Lecturer

Jim Kanaris; B.A.(C'dia), M.A., Ph.D.(McG.) (*Philosophy of Religion*)

Numata Visiting Professor

Roger R. Jackson; B.A.(Wesl.), M.A., Ph.D.(Madison)

Adjunct Professors

Hillard Todd Goldfarb; A.B.(Bowdoin), A.M.(Harv.), Ph.D.(Harv.)

Alyson Huntly; Dip.Min.(Centre for Christian Studies, Winnipeg), M.T.S.(St. And., Saskatoon), Ph.D.(Qu.)

Paul Jennings; B.A., M.A.(Tor.), B.Th.(McG.)

Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton Theological School)

William Klempa; B.A.(Manit.), M.A.(Tor.), B.D., D.D.(Knox, Tor.), Ph.D.(Edin.)

T. Jinpa Langri; B.A., Dr.Div.(King's Coll., Lond.), Ph.D.(Camb.)

Lucille Marr; B.A., M.A., Ph.D.(Wat.)

Angelica Piché; B.A.(Saarbrücken), M.Th.(Ludwig-Maximilian)

Vanessa Sasson; B.A., M.A., Ph.D.(McG.)

John M. Simons; B.A.(Bishop's), S.T.B.(Trin. Coll., Tor.), Ph.D.(G'town) (PT)

Dale Woods; B.A.(Alta.), M.C.S.(Regent), M.Div.(Vancouver School of Theology), D.Min.(Luther Seminary)

Course Lecturers (2013–2014)

Jeffrey Keiser; B.Sc.(Biola), M.T.S.(Harv.), Ph.D. Candidate(McG.)

Lei Kuan Lai; B.A.(University of the West in Rosemead), M.A.(Qu.), Ph.D. Candidate(McG.)

Lucille Marr; B.A., M.A., Ph.D.(Wat.)

Shayna Sheinfeld; B.A.(De Paul), M.T.S.(Harv.), Ph.D. Candidate(McG.)

Thomas Troughton; B.A.(C'dia), M.A.(McG.), Ph.D. Candidate(McG.)

Jonathan Waind; B.A.(Briercrest), M.T.S.(Trinity), M.A.(McG.), Ph.D. Candidate (McG.)

3.10.44.5 Bachelor of Arts (B.A.) - Minor Concentration Religion and Globalization (18 credits)

The Minor Concentration in Religion and Globalization offers students a comparative and historical exploration of the ways in which the world's religions are shaping and are shaped by the social, political, and economic dynamics of globalization, modernization, secularization, and postcolonialism.

Required Courses (3 credits)

RELG 331	(3)	Religion and Globalization

Complementary Credits (15 credits)

15 credits with no more than 6 credits at the 200 level

World Religions

6 credits from the following:

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 252	(3)	Hinduism and Buddhism

RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 334	(3)	Christian Thought and Culture

Themes in Religion, Culture, and Globalization

9 credits from the following:

ANTH 318	(3)	Globalization and Religion
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 332	(3)	Conversations Across World Religions
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage and Religious Tourism in South Asia
RELG 451	(3)	Zen: Maxims and Methods
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 456	(3)	Theories of Religion
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 547	(3)	Special Topics in Hinduism
RELG 554	(3)	Religions of South India 2
RELG 555	(3)	Honours Seminar
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 571	(3)	Religion and Medicine

3.10.44.6 Bachelor of Arts (B.A.) - Minor Concentration Scriptural Languages (18 credits)

The Minor Concentration Scriptural Languages is designed to provide students with the skills necessary to read scriptural sources in their original languages. This Minor concentration is recommended to be followed in conjunction with the Major Concentration Scriptures and Interpretations.

This program may not be expanded to one of the major concentrations offered in Religious Studies.

Students will choose from one of two streams:

Stream I: Biblical Languages

Stream II: Indo-Tibetan Languages

Stream I - Biblical Languages

18 credits chosen from among courses on Biblical Hebrew and Biblical Greek.

Biblical Hebrew

* Note: Students with advanced standing in Hebrew may take Aramaic as part of their program.

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
RELG 390D1*	(3)	Elementary Biblical Hebrew
RELG 390D2*	(3)	Elementary Biblical Hebrew
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Biblical Greek

RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 583	(3)	Hellenistic Religious Texts

Stream II - Indo-Tibetan Languages

Sanskrit is the language of classical Indian civilization and is recommended for students interested in gaining access to religious texts, philosophical works, academic treatises on all subjects, and poetry written in classical and medieval India.

Classical Tibetan is one of the main scriptural languages of Buddhism. Many texts originally composed in Sanskrit are only extant in their Tibetan translations, and a vast body of philosophical, devotional, poetic and academic works composed in Classical Tibetan is only accessible to one who has a firm grasp of the language.

Tamil is a language spoken by over 75,000,000 people around the world. It is an ancient South Indian language that, unlike Sanskrit, has a vital, living tradition. It has a classical literary canon and yet is also part of the everyday lives of millions of people.

18 credits chosen from among courses on Sanskrit, Tibetan, and Tamil.

Sanskrit

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2

Tibetan

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2

RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

Tamil

RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2

3.10.44.7 Bachelor of Arts (B.A.) - Minor Concentration World Religions (18 credits)

The Minor Concentration World Religions introduces students to the major world religions and to the academic study of religion.

This program may be expanded to the Major Concentration World Religions.

Complementary Courses (18 credits)

18 credits, no more than 12 of which may be taken at the 200-level, selected with the following specifications:

12 credits in Religious Traditions chosen from the course lists on "Judaism and Christianity" and/or "Hinduism and Buddhism."

6 credits from the course list on "Comparative Studies."

Judaism and Christianity

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Topics in Christian Ethics
RELG 379	(3)	Eastern Orthodox Christianity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 470	(3)	Theological Ethics

RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Hinduism and Buddhism

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 556	(3)	Issues in Buddhist Studies
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

Comparative Studies

RELG 207	(3)	The Study of World Religions 1
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2

RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics
RELG 555	(3)	Honours Seminar
RELG 571	(3)	Religion and Medicine

3.10.44.8 Bachelor of Arts (B.A.) - Major Concentration Scriptures and Interpretations (36 credits)

The Major Concentration Scriptures and Interpretations is designed for students interested in understanding scriptural literatures and their place in developing religious traditions. While students will be able to concentrate in the area of their choice (Jewish, Christian, or Hindu and Buddhist Scriptures and Interpretations), they will study scriptures of at least two religious traditions, either in English translation or, if their skills permit, in the original languages.

Required Courses (6 credits)

RELG 307	(3)	Bible, Quran & Interpretations
RELG 456	(3)	Theories of Religion

Complementary Courses (30 credits)

30 credits with a minimum of 18 credits selected from one area of specialization and a minimum of 6 credits from a second area.

Areas of Specialization:

- (a) Jewish Scriptures and the History of Their Interpretation
- (b) Christian Scriptures and the History of Their Interpretation
- (c) Hindu and Buddhist Scriptures and the Histories of Their Interpretations

No more than 12 credits may be taken at the 200 level.

(a) Jewish Scriptures and the History of Their Interpretation

JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2

RELG 308	(3)	Ancient Bible Translations
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts
RELG 502	(3)	Greco-Roman Judaism

(b) Christian Scriptures and the History of Their Interpretation

RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 308	(3)	Ancient Bible Translations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 381	(3)	Advanced New Testament Greek
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 583	(3)	Hellenistic Religious Texts

(c) Hindu and Buddhist Scriptures and the Histories of Their Interpretations

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2
RELG 337	(3)	Themes in Buddhist Studies
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism

RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 369	(3)	Tibetan Buddhism
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 548	(3)	Indian Buddhist Philosophy
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 560	(3)	Buddhist Poetry

3.10.44.9 Bachelor of Arts (B.A.) - Major Concentration World Religions (36 credits)

The Major Concentration World Religions offers students a broad introduction to the study of the world's major religions, with the possibility for concentration in a student's specific areas of interest. Developing an understanding of methods and problems in comparative approaches to the academic study of religion will be encouraged.

Required Course (3 credits)

RELG 456	(3)	Theories of Religion

Complementary Courses (33 credits)

33 credits, no more than 12 of which may be taken at the 200 level, selected with the following specifications:

24 credits in World Religions chosen from the course lists on "Judaism and Christianity" and/or "Hinduism and Buddhism" according to the student's area of interest.

9 credits from the course list on "Comparative Studies" according to the student's area of interest.

Judaism and Christianity

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1

RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Topics in Christian Ethics
RELG 379	(3)	Eastern Orthodox Christianity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Hinduism and Buddhism

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 442	(3)	Pure Land Buddhism

RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

Comparative Studies

RELG 207	(3)	The Study of World Religions 1
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 343	(3)	Topics: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 555	(3)	Honours Seminar
RELG 571	(3)	Religion and Medicine

3.10.44.10 Bachelor of Arts (B.A.) - Honours Religious Studies - Asian Religions (60 credits)

The Honours Religious Studies offers a degree of analysis and concentration beyond that of the Major program through coursework, intensive research and discussion with peer groups.

There are no prerequisites for entry to the program. Students must, however, maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

While gaining general knowledge of the study of religion, students also develop more concentrated expertise in either the Western Religions or Asian Religions option.

The requirements set out below pertain to the Asian Religions option.

Required Courses (9 credits)

RELG 204	(3)	Judaism, Christianity and Islam
RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Complementary Courses (51 credits)

51 credits selected with the following specifications:

3 credits introductory courses on Asian Religious Traditions

6 credits of Scriptural Languages related to Asian religious traditions (selected in consultation with the Program Adviser)

9 credits of courses on Religion and Culture

12 credits from the list of Approved Courses from Other Departments, of which at least 6 credits must be related to Western Religions

21 credits chosen from courses on Asian Religions, of which 3 credits must be a 500-level research seminar

Introductory - Asian Religious Traditions

3 credits from:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

Asian Religions - Scriptural Languages

6 credits of scriptural languages (Sanskrit, Tamil or Tibetan) chosen in consultation with the Program Adviser.

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

Religion and Culture

9 credits selected from:

RELG 256	(3)	Women in Judaism and Islam

RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 373	(3)	Topics in Christian Ethics
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(3)	Religious Controversies

Approved Courses from Other Departments

12 credits of Approved Courses from Other Departments, of which at least 6 credits must be related to Western Religions.

This list is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

Asian Religions

21 credits chosen from the list below, 3 credits of which must be a 500-level research seminar.

EAST 354	(3)	Taoist and Buddhist Apocalypses
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 556	(3)	Issues in Buddhist Studies
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

3.10.44.11 Bachelor of Arts (B.A.) - Honours Religious Studies - Western Religions (60 credits)

The Honours Religious Studies offers a degree of analysis and concentration beyond that of the Major program through coursework, intensive research and discussion with peer groups.

There are no prerequisites for entry to the program. Students must, however, maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

While gaining general knowledge of the study of religion, students also develop more concentrated expertise in either the Western Religions or Asian Religions option.

The requirements set out below pertain to the Western Religions option.

Required Courses

RELG 204	(3)	Judaism, Christianity and Islam
RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Complementary Courses (51 credits)

51 credits selected with the following specifications:

3 credits introductory courses on Asian Religious Traditions

6 credits of Scriptural Languages related to Western religious traditions (selected in consultation with the Program Adviser)

9 credits of courses on Religion and Culture

12 credits from the list of Approved Courses from Other Departments, of which at least 6 credits must be related to Asian Religions

21 credits chosen from courses on Western Religions, of which 3 credits must be a 500-level research seminar

Introductory - Asian Religious Traditions

3 credits from:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

Western Religions - Scriptural Languages

6 credits of scriptural languages (Biblical Greek or Biblical Hebrew) chosen in consultation with the Program Adviser.

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts
RELG 583	(3)	Hellenistic Religious Texts

Religion and Culture

9 credits selected from:

RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights

RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 373	(3)	Topics in Christian Ethics
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(3)	Religious Controversies

Approved Courses from Other Departments

12 credits of Approved Courses from Other Departments, of which at least 6 credits must be related to Asian Religions.

This list is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

Western Religions

21 credits chosen from the list below, 3 credits of which must be a 500-level research seminar.

JWST 510	(3)	Jewish Bible Interpretation 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran & Interpretations
RELG 308	(3)	Ancient Bible Translations

RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 379	(3)	Eastern Orthodox Christianity
RELG 381	(3)	Advanced New Testament Greek
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 423	(3)	Reformation Thought
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 583	(3)	Hellenistic Religious Texts

3.10.44.12 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Asian Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3 credits from Introductory Courses

3 credits from Advanced Courses

9 credits from Two Groups (Asian Religious Traditions, History and Philosophy) with at least 3 credits from each group

6 credits in Religion and Culture courses

15 credits, selected in consultation with an adviser, from Religious Studies (RELG) courses (or Approved Related Courses in Other Departments) at the 300 level or above, of which 9 credits must be at the 400 level or above.

Introductory Courses

3 credits from:

RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam

Advanced Courses

3 credits from:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Two Groups

9 credits selected from two groups with at least 3 credits from each group:

Asian Religious Traditions

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions

History and Philosophy

RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 369	(3)	Tibetan Buddhism

Religion and Culture

6 credits from:

RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 353	(3)	Gandhi: His Life and Thought
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 375	(3)	Religion, Politics and Society
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives

Religious Studies (RELG)

15 credits, selected in consultation with the Program Adviser, from Religious Studies (RELG) courses at the 300 level or above, of which 9 credits must be at the 400 level or above.

A maximum of 6 credits from other departments may be used toward this requirement (see list below).

Approved Related Courses in Other Departments

The list below is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

3.10.44.13 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Western Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3 credits from Introductory Courses

3 credits from Advanced Courses

9 credits from Two Groups (Sources of Western Religious Traditions, History and Theology of the Christian Tradition) with at least 3 credits from each group

6 credits in Religion and Culture courses

15 credits, selected in consultation with an adviser, from Religious Studies (RELG) courses (or Approved Related Courses in Other Departments) at the 300-level or above, of which 9 credits must be at the 400-level or above

Introductory Courses

3 credits from:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

Advanced Courses

3 credits from:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Two Groups

9 credits selected from two groups with at least 3 credits from each group:

Sources of Western Religious Traditions

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

History and Theology of the Christian Tradition

RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 334	(3)	Christian Thought and Culture
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Religion and Culture

6 credits from:

RELG 256	(3)	Women in Judaism and Islam
RELG 271	(3)	Sexual Ethics
RELG 338	(3)	Women and the Christian Tradition
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 347	(3)	Topics in Religion and the Arts
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics

RELG 377 (3) Religious Controversies

Religious Studies (RELG)

15 credits, selected in consultation with the program adviser, from Religious Studies (RELG) courses at the 300 level or above, of which 9 credits must be at the 400 level or above.

A maximum of 6 credits from other departments may be used toward this requirement (see list below).

Approved Related Courses in Other Departments

The list below is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

3.10.45 Science for Arts Students

3.10.45.1 Location

Prof. Louis Lefebvre
Stewart Biology Building, Room W6/10
Telephone: 514-398-6457
Email: louis.lefebvre@mcgill.ca

Nancy Nelson
Stewart Biology Building, Room W3/25
Telephone: 514-398-4109
Email: nancy.nelson@mcgill.ca

3.10.45.2 About Science for Arts Students

Students in the Faculty of Arts who have an interest in Science can choose between a minor program (15 credits in an area of Science plus one required course) or can take electives for which they have the required prerequisites. Not all courses are available in any given year.

For more information, consult [section 3.10.45.4: Bachelor of Arts \(B.A.\) - Minor Concentration Science for Arts Students \(18 credits\)](#).

3.10.45.3 Science for Arts Students Faculty**Director**

Professor Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.) (*Biology*), 514-398-6457, louis.lefebvre@mcgill.ca

3.10.45.4 Bachelor of Arts (B.A.) - Minor Concentration Science for Arts Students (18 credits)

Freshman students interested in this Minor concentration should seek advice at the earliest opportunity, by contacting the Program Adviser. In general, students should declare their intention to obtain this Minor concentration during their U1 year and consult the Program Adviser regarding approval of courses to meet the requirements.

Students select one of the following disciplinary areas as their area of specialization for the program:

Atmospheric and Oceanic Sciences

Biochemistry

Biology - Cell and Molecular Stream, Organismal Stream

Chemistry

Earth and Planetary Sciences

Geography

Mathematics and Statistics

Microbiology and Immunology

Pathology

Physics

Physiology

Psychology

This Minor concentration is administered by the Department of Biology. For more information contact the Program Adviser, Ms. Nancy Nelson in the Biology Department, Room W3/25, Stewart Biology Building, 514-398-4109; or the Program Director, Professor Louis Lefebvre, Room W6/10, Stewart Biology Building, 514-398-6457.

Required Course (3 credits)

BIOL 210	(3)	Perspectives of Science

Complementary Courses (15 credits)

15 credits taken in one of the disciplinary areas given below. Where suggested courses have prerequisites at the 200 or 300 level associated with them, credit for the associated prerequisites may also be counted as part of the 15 credits.

Prerequisites at the 100 level cannot be counted toward the Minor concentration.

With the prior written approval of the Program Adviser, an appropriate alternative set of courses may be substituted.

Disciplinary Areas**Atmospheric and Oceanic Sciences**

Prerequisites which cannot be counted toward the Minor concentration: MATH 140 and MATH 141 or equivalents; PHYS 101 or PHYS 131 and PHYS 102 or PHYS 142 or equivalents recommended.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
MATH 222	(3)	Calculus 3

Biochemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, or their equivalents.

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1

Students who have completed CHEM 212 and CHEM 222 or their equivalents may take one or both of the following:

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

Biology

Students interested in Biology can choose between two streams. One is oriented toward cell and molecular biology and leads to upper-level courses in developmental biology, human genetics, molecular biology, or allied fields. The other is oriented more toward organismal biology and leads to upper-level courses in biodiversity, ecology, neurobiology, behaviour, or conservation biology. See Ms. Nancy Nelson in the Biology Department, Room W3/25, Stewart Biology Building, to arrange a counselling session on the choice of courses above the 200 level.

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, plus CHEM 110 and CHEM 120 or their equivalents; in addition, for the Organismal Stream, PHYS 101 or PHYS 131; and MATH 140 and PHYS 102 or PHYS 142 if taking BIOL 306.

Biology - Cell and Molecular Stream

Note: CHEM 212 or its equivalent is a corequisite for BIOL 200.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
CHEM 212	(4)	Introductory Organic Chemistry 1

Plus a selected subset of these or related upper-level courses:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 370	(3)	Human Genetics Applied

Biology - Organismal Stream

CHEM 212 or its equivalent is corequisite for BIOL 200.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212	(4)	Introductory Organic Chemistry 1

Plus one or more of these or related upper-level courses:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour

BIOL 307	(3)	Behavioural Ecology
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 465	(3)	Conservation Biology

Chemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 112, and CHEM 110 and CHEM 120, or their equivalents; MATH 140, and PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents if taking CHEM 334.

The Department also strongly encourages students to take one or more courses involving a laboratory because the science of chemistry is rooted in laboratory experience.

Students select 15 credits from the following courses and their associated prerequisites:

Note: CHEM 212 or its equivalent is prerequisite to all 200-level or higher courses.

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 381	(3)	Inorganic Chemistry 2

One of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

Both:

CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Computer Science

Please see calendar listing for Bachelor of Arts Minor Concentrations in Computer Science.

Earth and Planetary Sciences

A combination of EPSC 201 or EPSC 233, together with EPSC 210 and EPSC 212 provides a grounding in Earth and Planetary Sciences and preparation for more specialized courses.

Students should meet with an EPSC departmental adviser prior to selecting their courses, as some 200-level courses have specific prerequisites.

Prerequisites which cannot be counted toward the Minor concentration: CHEM 110 and CHEM 120, and MATH 140 or equivalents.

Students select 15 credits from the following courses and their associated prerequisites:

EPSC 201*	(3)	Understanding Planet Earth
EPSC 203	(3)	Structural Geology
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233*	(3)	Earth and Life History
EPSC 320	(3)	Elementary Earth Physics

EPSC 334	(3)	Invertebrate Paleontology
EPSC 425	(3)	Sediments to Sequences

* Note: Students select either EPSC 201 or EPSC 233.

Geography

(Students in any Minor or Major concentration or Honours program in Geography cannot choose this disciplinary area.)

Geography advisers recommend including some preparation in chemistry, statistics, and calculus for study in this area even if formal prerequisites are not in place.

Students select 15 credits from the following courses and their associated prerequisites:

GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
GEOG 372	(3)	Running Water Environments

Mathematics and Statistics

(Students in any Minor or Major concentration or Honours program in Mathematics and Statistics cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor: MATH 133, MATH 140, and MATH 141 or equivalents.

Suggested courses:

MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 338	(3)	History and Philosophy of Mathematics

Microbiology and Immunology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and 120 or their equivalents.

Note: CHEM 212 or its equivalent is prerequisite, or corequisite, to these courses.

Students select 15 credits from the following courses and their associated prerequisites:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
MIMM 211	(3)	Introductory Microbiology
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Pathology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, plus CHEM 110 and CHEM 120, MATH 140, and PHYS 101 or PHYS 131 and PHYS 102 or PHYS 142, or their equivalents.

PATH 300, together with its associate prerequisites, is well suited to students with an interest in medicine.

Students select 15 credits from the following courses and their associated prerequisites:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
PATH 300	(3)	Human Disease
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Physics

Prerequisites which cannot be counted toward the Minor concentration: PHYS 131, PHYS 142, MATH 140, MATH 141, MATH 222 or their equivalents.

Honours courses may be substituted for their Major equivalents only with the permission of the Department.

Students select 15 credits from the following courses and their associated prerequisites:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

Physiology

Prerequisites which cannot be counted towards the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, MATH 140, PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents.

Students should select:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or BIOC 212.

Both:

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

And, if credits permit, one or more of these intermediate-level Physiology courses:

PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

Psychology

(Students in any Minor or Major concentration or Honours program in Psychology cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor concentration: PSYC 100 (or equivalent).

Students in the Minor concentration take 15 credits of Psychology selected as follows:

PSYC 204	(3)	Introduction to Psychological Statistics

Plus 6 credits from the following core courses:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

Plus 6 credits Psychology courses at the 300 level or higher (excluding PSYC 305).

3.10.46 Sexual Diversity Studies

3.10.46.1 Location

Institute for Gender, Sexuality, and Feminist Studies
3487 Peel Street, 2nd Floor
Montreal, Quebec H3A 1W7

Telephone: 514-398-3911
Email: info.igsf@mcgill.ca; samantha.thrift@mcgill.ca
Website: www.mcgill.ca/igsf/programs/sdst

Adviser: Samantha C. Thrift

3.10.46.2 About Sexual Diversity Studies

The Minor concentration in Sexual Diversity Studies is now in its seventh year at McGill University. It sets out to bring together into a coherent program much of the exciting new work and teaching in the study of sexuality across many disciplines. Fifteen departments or programs across five faculties provide courses. The program is vigorously eclectic, drawing on feminist studies, queer studies, LGBT studies, and a rich variety of other theoretical and empirical perspectives.

For further information concerning courses, consult the *IGSF Teaching Programs Handbook* available from the IGSF or at www.mcgill.ca/igsf. The most up-to-date information concerning courses will be on the website.

3.10.46.3 Sexual Diversity Studies Faculty

Program Committee Chair

Professor Lloyd Whitesell (*School of Music*)

Administrative and Student Affairs Coordinator (Student Adviser)

Samantha C. Thrift, Ph.D.(McG.)

Program Committee

Professor Carrie Rentschler, Director, IGSF (*Art History and Communication Studies*)

Professor Kenneth Borris (*English*)

Elizabeth Groeneveld; Ph.D.(Guelph) (*Faculty Lecturer, Women's Studies, IGSF*)

Professor Brian Lewis (*History and Classical Studies*)

3.10.46.4 Bachelor of Arts (B.A.) - Minor Concentration Sexual Diversity Studies (18 credits)

The Minor Concentration Sexual Diversity Studies is informed by a tradition of critical inquiry developed within various frameworks including Women's Studies and Gay, Lesbian and Queer Studies. It is designed to introduce students to the latest scholarship on the study of sexuality and sexual and gender diversity across a wide range of disciplines and cultures.

Required Course (3 credits)

SDST 250	(3)	Introduction: Sexual Diversity Studies

Complementary Courses (15 credits)

15 credits from the list below.

Note: If a course has an asterisk (*), it may be counted toward the program only when the topic is appropriate for Sexual Diversity Studies.

ARCH 533*	(3)	New Approaches to Architectural History
CANS 308	(3)	Sex and Gender in Canada
COMS 310	(3)	Media and Feminist Studies
COMS 490*	(3)	History and Theory of Media
EAST 304*	(3)	Current Topics: Chinese Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 370	(3)	History of Sexuality in Japan
ENGL 354	(3)	Sexuality and Representation
ENGL 407*	(3)	The 20th Century
ENGL 414*	(3)	Studies in 20th Century Literature 1
GEOG 541*	(3)	Topics in Geography 2
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 430*	(3)	Topics in Modern Medicine
HIST 433	(3)	British Queer History
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 457*	(3)	Topics in Medical History
MUAR 399	(3)	Music and Queer Identity
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PSYC 436	(3)	Human Sexuality and Its Problems
RELG 271	(3)	Sexual Ethics
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
SDST 450	(3)	Independent Reading & Research
SDST 499	(3)	Internship: Sexual Diversity Studies
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 530	(3)	Sex and Gender
SWRK 342	(3)	Practice with Gay, Lesbian, Bisexual & Two-Spirit People

WMST 301*	(3)	Women's Studies Current Topics 1
WMST 402*	(3)	Women's Studies Special Topics 2
WMST 513	(3)	Gender, Race and Science

3.10.47 Social Studies of Medicine (SSMD)

3.10.47.1 Location

Department of Social Studies of Medicine
3647 Peel Street, 2nd Floor
Montreal, Quebec H3A 1X1

Telephone: 514-398-6033
Fax: 514-398-1498
Email: ssom@mcgill.ca
Website: www.mcgill.ca/ssom

3.10.47.2 About Social Studies of Medicine

The Minor concentration in Social Studies of Medicine is an interdisciplinary concentration of courses designed to address the needs of (1) undergraduates preparing for one of the health professions, and (2) social sciences and humanities undergraduates who want to gain a broader interdisciplinary understanding of medicine and health issues.

The Minor concentration in Social Studies of Medicine presents medicine as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures, and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine.

The Minor consists of 18 credits. Students are required to take 6 credits from each of the three groups.



Note: No overlap is permitted with courses counting toward the student's Major concentration.

3.10.47.3 Social Studies of Medicine (SSMD) Faculty

Chair

Alberto Cambrosio

Emeritus Professor

Margaret Lock; B.Sc.(Leeds), M.A., Ph.D.(Calif., Berk.) (*Marjorie Bronfman Professor in Social Studies in Medicine*)

Professors

Alberto Cambrosio; M.Env.(Sher.), Ph.D.(Montr.)

Thomas Schlich; M.D.(Marburg), Ph.D.(Freiburg) (*James McGill Professor*)

Andrea Tone; B.A.(Qu.), M.A., Ph.D.(Emory) (*Canada Research Chair in the Social History of Medicine*)

George Weisz; M.A., Ph.D.(SUNY), Dr. 3rd Cy.(Paris) (*Cotton-Hannah Professor of the History of Medicine*)

Allan Young; M.A.(Wash.), B.A., Ph.D.(Penn.) (*Marjorie Bronfman Professor in Social Studies in Medicine*)

Associate Professor

Faith Wallis; M.A., M.L.S.(McG.), Ph.D.(Tor.)

Associate Professor (Primary Appointment: Biomedical Ethics Unit)

Jonathan Kimmelman; M.A., Ph.D.(Yale)

Assistant Professor

Tobias Rees; M.A.(Tübingen), Ph.D.(Calif., Berk.)

Assistant Professors (Primary Appointment: Biomedical Ethics Unit)

Jennifer Fishman; M.A.(Calif., Irvine), Ph.D.(Calif.)

Nicholas King; M.A., Ph.D.(Harv.)

Adjunct Professor

Cornelius Borck; M.A., M.D.(Free Univ., Berlin), Ph.D.(Lond.)

3.10.47.4 Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 330	(3)	Science in the Medieval West
HIST 335	(3)	Science and Medicine in Canada
HIST 348	(3)	China: Science-Medicine-Technology
HIST 356	(3)	Medicine in the Medieval West
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 430	(3)	Topics in Modern Medicine
HIST 449	(3)	Medicine in the Ancient World
HIST 452	(3)	Medicine in Europe 1500-1700
HIST 457	(3)	Topics in Medical History
HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 466	(3)	Seminar: Medieval Medicine
HIST 496	(3)	Research: Medieval Medicine
WMST 513	(3)	Gender, Race and Science

Anthropology of Medicine

ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 325	(3)	Anthropology of the Self
ANTH 407	(3)	Anthropology of the Body
ANTH 408	(3)	Sensory Ethnography
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 480	(3)	Special Topic 5

ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10

Sociology of Medicine

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 588	(3)	Biosociology/Biodemography

3.10.48 Social Work (SWRK)

3.10.48.1 Location

School of Social Work
Wilson Hall, Suite 300
3506 University Street
Montreal, Quebec H3A 2A7

Telephone: 514-398-7070

Fax: 514-398-4760

Email: undergraduate.socialwork@mcgill.ca

Website: www.mcgill.ca/socialwork

3.10.48.2 About Social Work

The School of Social Work offers an undergraduate program leading to a Bachelor of Social Work (B.S.W.) degree. The B.S.W. program:

1. prepares students for generalist social work practice in a range of health and social service positions (the B.S.W. represents the point of admission into the *Ordre des Travailleurs Sociaux et des Thérapeutes Conjugaux et Familiaux du Québec* (OTSTCFQ) and the Canadian Association of Social Workers);
2. prepares students for entry into specialized professional studies at the graduate level.

A 90-credit program is offered to students entering from CEGEP or equivalent, students who transfer from within McGill or other universities, and mature students.



Note: Quebec law requires that candidates seeking admission to the OTSTCFQ possess a working knowledge of the French language, i.e., be able to communicate verbally and in writing in that language. For further information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.10.1: Language Requirements for Professions*.

Applications are encouraged from persons of diverse backgrounds, including aboriginal peoples, members of minority groups, and persons of low income.

The objectives of the B.S.W. program are to provide an academic environment within which students will develop:

- integrated social work knowledge pertaining to its history, theoretical foundations, research base, practice modalities, and policies that influence the delivery of health and social services;

- professional skills in the well-established methods of practice with individuals, families, and groups in communities and organizations;
- an understanding of social policy in Canada, the factors, processes, and forces that shape it, and the skills to intervene;
- an awareness of the various dimensions of diversity and how they intersect in an increasingly heterogeneous society;
- a sense of identity with the profession of social work, which implies awareness of self as the intervening agent in practice, a sense of responsibility that accompanies the act of intervention, and sensitivity to the ethical issues that arise in practice; and,
- a commitment to advancing knowledge and improving skills in social work practice that are the prerequisites for entering into more specialized professional studies at the graduate level.

3.10.48.3 Bachelor of Social Work (B.S.W.) – Three-Year Program – Admission

Three categories of applicants are eligible to apply for September admission to the three-year Bachelor of Social Work:

- Applicants who have completed a DEC from CEGEP or have completed equivalent studies with better-than-average grades and have related social work experience will be considered for admission to a minimum 90-credit program.

- **Transfer Students**

Students who have begun undergraduate degree programs either at McGill or at other universities may apply to transfer to the School of Social Work. In order to qualify as a transfer student, applicants are expected to have a B average in their coursework (minimum 3.00 CGPA). While previously taken credits may be accepted toward the B.S.W. program requirements, accepted applicants will be required to complete a minimum of 60 approved McGill credits over three academic years. Accepted transfer credits are assessed individually at the point of admission.

Students wishing to transfer after their Freshman year must have completed the minimum 24 credits required for the Arts Freshman Program. Completion of these credits does not exempt students from any of the course requirements for the B.S.W. degree (90 credits), nor decrease their credit requirement (120 credits).

- **Mature Students**

Residents of Canada who are 23 years of age or older, and who lack the academic background normally required for admission, may apply for entrance as mature students. To be considered for the B.S.W. program, applicants must have had significant paid or volunteer community work experience in related fields, and must also have completed, within the last three years, a minimum of two appropriate courses at the college or university level, achieving a grade of B or better in each. However, all coursework completed in the last five years will also be taken into account.

Enrolment in the B.S.W. program is limited. Candidates, whether entering or transferring, are expected to have better-than-average grades. Within the group of applicants who meet the academic requirements, preference is given to those who have had significant social work-related experience, paid or volunteer, and also to those who demonstrate personal suitability for the social work profession.

More details on entrance requirements can be found at www.mcgill.ca/applying.

While not a prerequisite for admission, working knowledge of the French language is important not only for candidates who intend to seek admission to the OTSTCFQ, but also for those who will be completing a field placement in the province of Quebec.

3.10.48.4 Social Work (SWRK) Faculty

Director

Wendy Thomson

Professors

Linda Davies; B.S.W., M.S.W.(McG.), Ph.D.(N. Lond. Poly.)

Myriam Denov; B.A.(Tor.), B.S.W.(McG.), M.A.(Ott.), Ph.D.(Camb.)

Wendy Thomson; B.S.W., M.S.W.(McG.), Ph.D.(Brist.)

James Torczyner; B.H.L.(Yeshiva), M.S.W., D.S.W.(Calif.)

Nico Trocmé; B.A., M.S.W., Ph.D.(Tor.) (*The Philip Fisher Chair in Social Work*)

Associate Professors

Sharon Bond; B.A.(Sir G. Wms.), B.Sc.(Montr.), M.S.W., Ph.D.(McG.)

Shari Brotman; B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

Sydney Duder; B.Sc., M.S.W., Dip.Adv.Soc.Wk.Pr., Ph.D.(McG.)

Jill Hanley; B.A., B.S.W.(McG.), M.A.(Tufts), Ph.D.(Montr.)

Estelle Hopmeyer; B.A., M.S.W.(McG.)

Nicole Ives; B.A.(Col.), M.S.W., Ph.D.(Penn.)

Julia Krane; B.A.(Ott.), B.S.W.(McG.), M.S.W., Ph.D.(Tor.)

Associate Professors

Lucyna Lach; B.A., M.S.W., Ph.D.(Tor.)

Assistant Professors

Delphine Collin-Vézina; B.Sc., Ph.D.(Montr.)

Heather MacIntosh; B.A., Ph.D.(Ott.)

David Rothwell; B.A.(Pitzer), M.S.W.(Tulane), Ph.D.(Hawaii)

Tamara Sussman; B.A., B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

Field Education Program

Francine Granner; B.S.W., M.S.W.(McG.)

Karen Hetherington; B.A.(C'dia), M.A.(Montr.)

3.10.48.5 Bachelor of Social Work (B.S.W.) - Social Work (Three-Year Program) (90 credits)

Field Practicum

Students in the three-year B.S.W. program complete a field placement during their second and third years, two days per week, in different settings each year. Students must have completed a minimum of 24 credits of the 90 credits of study before commencing their second year placement, and 54 credits before commencing their third-year placement.

Grading Policy

Students are required to obtain a grade of C or better in all of their Social Work courses (63-66 credits) and also in their 18 social science credits. If students receive a D in any of these courses, they must take additional courses to satisfy the program requirement. Only in an elective course will the grade of D be counted for credit.

Prerequisite for Admission to McGill's Master of Social Work (M.S.W.)

Please note that, although not a requirement for the three-year B.S.W. program, a course in statistics is a prerequisite for admission into the M.S.W. program at McGill. Students in the three-year B.S.W. program who have not previously completed a course in statistics and are planning on completing a graduate degree are, therefore, strongly encouraged to take a statistics course during their undergraduate studies.

Required Courses (57 credits)

SWRK 220	(3)	History & Philosophy of Social Work
SWRK 221	(3)	Public Social Services in Canada
SWRK 222	(3)	Introduction to Practicum
SWRK 223	(3)	Poverty and Inequality
SWRK 224	(3)	Human Development Across the Lifespan
SWRK 320	(3)	Practice with Individuals and Families 1
SWRK 321	(3)	Introduction to Practice with Groups
SWRK 322	(3)	Field Practice 1
SWRK 323	(3)	Field Practice 2
SWRK 325	(3)	Anti-Oppression Social Work Practice
SWRK 326	(3)	Practice with Individuals and Families 2
SWRK 327	(3)	Approaches to Community Practice
SWRK 420	(3)	Advanced Field Practice 1
SWRK 421	(3)	Advanced Field Practice 2
SWRK 422	(3)	Integrative Seminar
SWRK 423	(3)	Social Work Research
SWRK 424	(3)	Mental Health and Illness
SWRK 428	(3)	Social Policy and Administration
SWRK 525	(3)	Critical Thought and Ethics in Social Work

Complementary Courses (27 credits)

Complementary courses comprise 24-27 credits of the program. These are selected with the following specifications.

6-9 credits of Social Work (SWRK) courses.

18 credits of social science courses taken in Anthropology (ANTH), Economics (ECON), Political Science (POLI), Psychology (PSYC), or Sociology (SOCI). At least 6 of these credits must be taken at the 300 level or higher or at least 9 of these credits must be taken within one department.

Courses given in other departments may be considered on an individual basis and require special permission of the B.S.W. Program Director.

Elective Courses (6 credits)

6-9 credits of electives may be chosen from a discipline other than Social Work.

Only in an elective course will the grade of D be counted for credit toward the program.

Satisfactory/Unsatisfactory (S/U) Option Policy

Please note, according to University regulations, the S/U option can only be selected for an elective course. See "Registration" and "Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option".

3.10.49 Sociology (SOCI)**3.10.49.1 Location**

Stephen Leacock Building, Room 713
855 Sherbrooke Street West
Montreal, Quebec H3A 2T7

Undergraduate Program Information: 514-398-6868

Fax: 514-398-3403

Email: giovanna.terras@mcgill.ca

Website: www.mcgill.ca/sociology

3.10.49.2 About Sociology

Sociology is commonly defined as the scientific study of society. It offers the student an educational experience which is both intellectually rewarding and practically useful as a preparation for future career opportunities. It provides the student with the theoretical and analytical tools to better understand the complex social forces which affect our lives, contributing in this way to personal enrichment and more effective citizenship. It is also valuable preparation for advanced study in the social sciences, as well as for careers in the professions, management, education, law, medicine and health-related areas, social work, and communications in both the public sector and private industry.

The Department offers a minor concentration, a major concentration, and an honours program in Sociology. Although students from outside the Department may take courses in the Department without having had SOCI 210 Sociological Perspectives (except where noted otherwise), the course is recommended. The purpose of the Minor concentration is to give the student a basic understanding of the field of Sociology, while the Major concentration will provide a more comprehensive coverage of the field. The purpose of the Honours program is to permit a student to study the field in depth, and to do an Honours Project – a research paper under the supervision of a faculty member, the topic and supervisor chosen by mutual agreement between the student and the professor.

Undergraduate Adviser

Jason Carmichael
Telephone: 514-398-6838
Email: jason.carmichael@mcgill.ca

Honours Undergraduate Adviser

Matthew Lange
Telephone: 514-398-6850
Email: matthew.lange@mcgill.ca

General Program Inquiries

Joanne Terrasi, Administrative and Student Affairs Coordinator
 Telephone: 514-398-6868
 Email: giovanna.terradi@mcgill.ca

3.10.49.3 Orientation Session for New Students

The Sociology Department Orientation Session will be held in Leacock 738 (7th floor of the Stephen Leacock Building, directly opposite the elevators).

3.10.49.4 Sociology (SOCI) Faculty

Chair

TBA

Director, Undergraduate Studies

Jason Carmichael

Director, Graduate Studies

TBA

Emeritus Professors

Maurice Pinard; B.A., LL.L., M.A.(Montr.), Ph.D.(Johns Hop.), F.R.S.C.
 Peta Tancred; B.A.(McG.), M.A.(Montr.), Ph.D.(LSE)

Professors

Alberto Cambrosio; Dip.(Basel), M.A.(Sher.), Ph.D.(Montr.) (*Social Studies of Medicine*)
 John A. Hall; B.A.(Oxf.), M.A.(Penn.), Ph.D.(LSE) (*James McGill Professor*)
 Céline Le Bourdais; B.Sc.(Montr.), B.Sc.(Laval), M.Sc.(Montr.), Ph.D.(Brown) (*Canada Research Chair in Social Statistics and Family Change*)
 Anthony Masi; A.B.(Colgate), M.A., Ph.D.(Brown) (*Provost*)
 Michael Smith; B.A.(Leic.), M.A., Ph.D.(Brown) (*James McGill Professor*)
 Axel van den Berg; Kand. Doc.(Amster.), Ph.D.(McG.)
 Morton Weinfeld; B.A.(McG.), Ed.M., Ph.D.(Harv.) (*Chair, Canadian Ethnic Studies*)

Associate Professors

Lucia Benaquisto; B.A.(SUNY, Albany), A.M., Ph.D.(Harv.)
 Jason Carmichael; B.A.(Ariz. St.), M.A., Ph.D.(Ohio St.)
 Shelley Clark; B.A.(Virg.), M.A., Ph.D.(Princ.) (*Canada Research Chair in Youth, Gender and Global Health*) (*Director, Centre on Population Dynamics*)
 Kathleen Fallon; B.A.(Calif.), M.A., Ph.D.(Ind.) (*Chair, African Studies Program*)
 Matthew Lange; B.A.(Carleton Coll.), M.A., Ph.D.(Brown)
 Amélie Quesnel-Vallée; B.Sc., M.Sc.(Montr.), M.A., Ph.D.(Duke)
 Steven L. Rytina; B.G.S., Ph.D.(Mich.)
 Elaine Weiner; B.A.(Grinnell), M.A.(Flor.), Ph.D.(Mich.)

Assistant Professors

Aniruddha (Bobby) Das; B.A.(Delhi), M.A.(Delaware), Ph.D.(Chic.)
 Eran Shor; B.A., M.A.(Haifa), M.A., Ph.D.(Stony Brook)
 Zoua Vang; B.A.(Penn.), M.A., Ph.D.(Harv.)

Associate Members

Gregory Baum (*Religious Studies*)

Jennifer Fishman (*Social Studies of Medicine – Biomedical Ethics Unit*)

Robert E. Whitley (*Psychiatry*)

3.10.49.5 Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 credits)

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

Complementary Courses (12 credits)

3 credits from the following:

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

9 credits of complementary courses chosen from the "Areas of Sociology" course lists below of which at least 3 credits must be taken at the 300-level or higher.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime

SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America

SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.49.6 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 440	(3)	Current Problems
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime
SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.49.7 Bachelor of Arts (B.A.) - Honours Sociology (51 credits)

Students may register for the Honours program at the beginning of their second year (U2).

To remain in the Honours program and receive an Honours degree, students must maintain a GPA of 3.40 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (21 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology
SOCI 480	(3)	Honours Project

Complementary Courses (30 credits)

30 credits of complementary sociology (SOCI) courses selected with the following specifications:

9 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Honours students in their final year.

Graduate Seminar:

The graduate seminar listed below is open to final-year Honours students with adequate preparation.

SOCI 652	(3)	Current Sociological Theory

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime
SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons

SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification

SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.49.8 Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2).

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.40 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 480	(3)	Honours Project

Complementary Courses (18 credits)

18 credits of complementary sociology (SOCI) courses approved by the Departmental Honours Adviser.

500-Level Seminars:

Seminars at the 500 level are open to Honours/Joint Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours/Joint Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime
SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change

SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.50 Women's Studies (WMST)

3.10.50.1 Location

McGill Institute for Gender, Sexuality, and Feminist Studies (IGSF)
3487 Peel Street, 2nd Floor
Montreal, Quebec H3A 1W7

Telephone: 514-398-3911

Email: info.igsf@mcgill.ca; samantha.thrift@mcgill.ca

Website: www.mcgill.ca/igsf/programs/wmst

Adviser: Samantha C. Thrift

3.10.50.2 About Women's Studies

Women's Studies is an interdisciplinary program that brings to light contemporary and historical critical issues centred on women, gender, and/or feminism. The program provides students with opportunities to explore the meanings and intersections of such categories as gender, 'race', class, sexual orientation, age, ability, citizenship, and national identity for example, and to examine how such categories might inform and reproduce power relationships.

Students must see an adviser in Women's Studies at a minimum upon registering in WMST and prior to selecting courses for the final year of study.

For further information concerning courses, consult the *IGSF Teaching Programs Handbook* available from the IGSF or online at www.mcgill.ca/igsf. The most up-to-date information concerning courses will be on the website.

3.10.50.3 Women's Studies (WMST) Faculty**Faculty Lecturer**

Elizabeth Groeneveld; Ph.D.(Guelph)

Assistant Professor

Vrinda Narain; Ph.D.(McG.) (*joint appt. with IGSE, Women's Studies, Faculty of Arts, and Faculty of Law*)

3.10.50.3.1 Women's Studies Advisory Committee (WSAC) 2012–2013**Chair**

Professor Elizabeth Groeneveld (*Faculty Lecturer, IGSE*)

Administrative and Student Affairs Coordinator (Student Adviser)

Samantha C. Thrift, Ph.D.(McG.)

Faculty of Arts Representatives

Professor Sandra Hyde (*Anthropology*)

Professor Vrinda Narain (*IGSE, Women's Studies; joint appt. with Faculty of Law*)

Professor Alanna Thain (*English*)

Representatives from Other Faculties

Professor Julia Krane (*School of Social Work*)

Professor Ada Sinacore (*Dept. of Educational and Counselling Psychology, Faculty of Education*)

Professor Daves Soneji (*Faculty of Religious Studies*)

Professor Lloyd Whitesell (*Schulich School of Music*)

Ex-officio

Professor Carrie Rentschler (*Director, IGSE*) (*Art History and Communication Studies*)

3.10.50.4 Bachelor of Arts (B.A.) - Minor Concentration Women's Studies (18 credits)

This Minor concentration may be expanded to the Major Concentration Women's Studies.

Required Courses (6 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research

Complementary Course Group B (12 credits)

Minimum of 6 credits must be at the 300 level or higher.

Maximum of 6 credits will be accepted from approved exchange programs by arrangement with the Chair of the Women's Studies Advisory Committee and subject to University approval.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory

COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies

SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1

ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

3.10.50.5 Bachelor of Arts (B.A.) - Major Concentration Women's Studies (36 credits)

Required Courses (6 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research

Complementary Courses (30 credits)

Overview of the specifications for the 30 complementary credits:

3 credits from a list of Women's Studies (WMST) courses and

27 remaining credits with a minimum of 6 credits at the 400 or 500 level with:

12 credits selected from Group A courses and

15 credits selected from Group B courses

A maximum 12 transfer credits will be accepted from approved exchange programs by arrangement with the Chair of the Women's Studies Advisory Committee and subject to University approval.

Women's Studies (WMST)

3 credits from:

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group A

12 credits from Group A

Group A courses are divided into eight sub-groups. Students may take only one course from any particular grouping. Any additional credits taken above the 12 credits from Complementary Course Group A may count as credits toward Complementary Course Group B.

Group A-1

SOCI 270	(3)	Sociology of Gender

Group A-2

PHIL 242	(3)	Introduction to Feminist Theory

Group A-3

COMS 310	(3)	Media and Feminist Studies

Group A-4, Gender Relations in Major Societal Institutions

SOCI 247	(3)	Family and Modern Society
SOCI 321	(3)	Gender and Work
SOCI 390	(3)	Gender and Health

Group A-5, Transnational or National Histories of Women/Gender and Sexuality

EAST 370	(3)	History of Sexuality in Japan
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2

Group A-6, Women/Gender and Literature

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory

Group A-7, Women/Gender in a Religious Tradition

RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender & Sexuality in Hinduism

Group A-8, Women and Health

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health

Complementary Course Group B

15 credits from Group B

Students select 15 credits from the Group B lists in consultation with an adviser and identify an individual focus of study comprised of 9 credits.

Reminder: A minimum of 6 credits at the 400 or 500 level must be taken in the 27 credits of Complementary Course Groups A and B. Students will find more possible choices to meet this requirement in Group B.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada

HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year. Additions may be made during a particular calendar year depending on the topics of the courses offered. For final updates, see <http://www.mcgill.ca/igsf>.

Please note that not all courses are offered every year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2

RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

3.10.50.6 Bachelor of Arts (B.A.) - Honours Women's Studies (57 credits)

This Honours program offers a degree of analysis and depth of contemporary and historical critical issues centred on women, gender, and/or feminism beyond that of the Major concentration. The Honours culminates in the completion of an Honours thesis, supervised by a Faculty member. Students secure the approval of a potential thesis adviser during the year before undertaking the thesis. Three credits are accorded to the thesis (graded by the Thesis Adviser), and 3 credits are accorded to work undertaken in the Colloquium, which requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others.

Honours students must maintain a GPA of 3.30 in all required and complementary courses that fulfil the requirements of an Honours Component in Women's Studies, and a CGPA of 3.00.

Required Courses (12 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research
WMST 495D1	(1.5)	Honours/Joint Honours Colloquium
WMST 495D2	(1.5)	Honours/Joint Honours Colloquium
WMST 497D1	(1.5)	Honours/Joint Honours Thesis
WMST 497D2	(1.5)	Honours/Joint Honours Thesis

Complementary Courses (45 credits)

Overview of the specifications for the 45 complementary credits:

6 credits from a list of Women's Studies (WMST) courses and

12 credits selected from Group A courses and

27 credits selected from Group B courses

Over the entire 45 credits,

9 credits minimum must be at the 400 or 500 level and

18 credits maximum may be at the 200 level.

A maximum of 18 transfer credits will be accepted from approved exchange programs by arrangement with the Chair of WSAC and subject to University approval.

Women's Studies (WMST)

6 credits from:

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group A

12 credits from Group A

Group A courses are divided into eight sub-groups. Students may take only one course from any particular grouping. Any additional credits taken above the 12 credits from Complementary Course Group A may count as credits toward Complementary Course Group B.

Group A-1

SOCI 270	(3)	Sociology of Gender

Group A-2

PHIL 242	(3)	Introduction to Feminist Theory

Group A-3

COMS 310	(3)	Media and Feminist Studies

Group A-4, Gender Relations in Major Societal Institutions

SOCI 247	(3)	Family and Modern Society
SOCI 321	(3)	Gender and Work
SOCI 390	(3)	Gender and Health

Group A-5, Transnational or National Histories of Women/Gender and Sexuality

EAST 370	(3)	History of Sexuality in Japan
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2

Group A-6, Women/Gender and Literature

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory

Group A-7, Women/Gender in a Religious Tradition

RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender & Sexuality in Hinduism

Group A-8, Women and Health

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health

Complementary Course Group B

27 credits from Group B

Students select 27 credits from the Group B lists in consultation with an adviser and identify an individual focus of study comprised of 15 credits.

Reminder: A minimum of 9 credits at the 400 or 500 level must be taken in the 45 credits of Complementary Courses. Students will find more possible choices to meet this requirement in Group B.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines. Additions may be made during a particular calendar year depending on the central focus of the course. For final updates, see <http://www.mcgill.ca/igsf/>.

Please note that not all courses are offered every year.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State

ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition

RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Group B: Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year. Additions may be made during a particular calendar year depending on the topic of the courses. For final updates, see <http://www.mcgill.ca/igsf>.

Please note that not all courses are offered every year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2

ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

3.10.50.7 Bachelor of Arts (B.A.) - Joint Honours Component Women's Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

The Joint Honours component in Women's Studies offers a degree of analysis and depth of contemporary and historical critical issues centered on women, gender, and/or feminism beyond that of the Major concentration. It culminates in the completion of an Honours thesis, supervised by a faculty member. Students secure the approval of a potential thesis adviser during the year before undertaking the thesis. Three credits are accorded to the thesis (graded by the Thesis Adviser), and 3 credits are accorded to work undertaken in the Colloquium which requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others.

Joint Honours students must maintain a GPA of 3.30 in all required and complementary courses that fulfil the requirements of a Joint Honours Component in Women's Studies, and a CGPA of 3.00.

Required Courses (12 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research
WMST 495D1	(1.5)	Honours/Joint Honours Colloquium
WMST 495D2	(1.5)	Honours/Joint Honours Colloquium
WMST 497D1	(1.5)	Honours/Joint Honours Thesis
WMST 497D2	(1.5)	Honours/Joint Honours Thesis

Complementary Courses (24 credits)

Overview of the specifications for the 24 complementary credits:

3 credits from a list of Women's Studies (WMST) courses and

9 credits selected from Group A courses and

12 credits selected from Group B courses.

Over the entire 24 credits,

6 credits minimum must be at the 400 or 500 level and

12 credits maximum may be at the 200 level.

A maximum 12 transfer credits will be accepted from approved exchange programs by arrangement with the Chair of WSAC and subject to University approval.

Women's Studies (WMST)

3 credits from:

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group A

9 credits from Group A

Group A courses are divided into eight sub-groups. Students may take only one course from any particular grouping. Any additional credits taken above the 9 credits from Complementary Course Group A may count as credits toward Complementary Course Group B.

Group A-1

SOCI 270	(3)	Sociology of Gender

Group A-2

PHIL 242	(3)	Introduction to Feminist Theory

Group A-3

COMS 310	(3)	Media and Feminist Studies

Group A-4, Gender Relations in Major Societal Institutions

SOCI 247	(3)	Family and Modern Society
SOCI 321	(3)	Gender and Work

SOCI 390	(3)	Gender and Health

Group A-5, Transnational or National Histories of Women/Gender and Sexuality

EAST 370	(3)	History of Sexuality in Japan
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2

Group A-6, Women/Gender and Literature

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory

Group A-7, Women/Gender in a Religious Tradition

RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender & Sexuality in Hinduism

Group A-8, Women and Health

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health

Complementary Course Group B

12 credits from Group B

Students select 12 credits from the Group B lists in consultation with an adviser and identify an individual focus of study comprised of 9 credits.

Reminder: A minimum of 6 credits at the 400 or 500 level must be taken in the 24 credits of Complementary Courses. Students will find more possible choices to meet this requirement in Group B.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines. Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see <http://www.mcgill.ca/igsf/>.

Please note that not all courses are offered every year.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan

EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body

SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year. Additions may be made during a particular calendar year depending on the topic of the courses. For final updates, see <http://www.mcgill.ca/igsf/>.

Please note that not all courses are offered every year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form

ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

3.10.51 World Cinemas (FILM)

3.10.51.1 Location

Interdisciplinary Programs Office
688 Sherbrooke Street West, Suite 0431
Montreal, Quebec H3A 3R1

Telephone: 514-398-4400 ext. 09557
Fax: 514-398-1748
Email: interdisciplinary.arts@mcgill.ca
Website: www.mcgill.ca/worldcinemas

Adviser: Karin Bourgeois (*on leave*)
Adviser: Ines Scharnweber (*interim*); ines.scharnweber@mcgill.ca

3.10.51.2 About World Cinemas Minor Concentration

The World Cinemas program was established to coordinate faculty expertise and student interest in different national and international cinematic traditions. It offers courses across various departments, primarily in Arts, in order to train students to approach film studies from a variety of traditions and locations, while introducing them to different modes of cinematic practice and production from around the world.

3.10.51.3 World Cinemas (FILM) Faculty

Program Committee Chair

Michael Cowan; B.A., Ph.D.(Calif., Berk.) (*Languages, Literatures, and Cultures – German Studies*) Co-chair 2012–2015

Alanna Thain; B.A.(McG.), Ph.D.(Duke) (*English*) Co-chair 2012–2015

Program Committee

Eugenio Bolongaro; B.A., LL.B.(Br. Col.), Ph.D.(McG.) (*Languages, Literatures, and Cultures – Italian Studies*)

Alain Farah; M.A.(UQAM), Ph.D.(UQAM/ENS Lyon) (*Langue et littérature françaises*)

Yuriko Furuhashi; B.A.(Int'l. Christian), M.A.(N. Mexico), Ph.D.(Brown) (*East Asian Studies*)

Thomas LaMarre; B.A.(G'town), M.A., Ph.D.(Chic.), D.Sc.(d'Aix-Marseille II) (*East Asian Studies*)

3.10.51.4 Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

ENGL 277	(3)	Introduction to Film Studies
FILM 279	(3)	Introduction to Film History

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

CANS 300	(3)	Topics in Canadian Studies 1
EAST 214	(3)	Japanese Animation & New Media
EAST 216	(3)	Chinese Action Film
EAST 353	(3)	Approaches to Chinese Cinema
EAST 362	(3)	Japanese Cinema
EAST 368	(3)	Chinese Cinema Meets Hollywood
EAST 369	(3)	Topics in Gender and Sexuality in Chinese Cinema
EAST 454	(3)	Topics: Chinese Cinema
EAST 467	(3)	Topics: Japanese Cinema
EAST 564	(3)	Structures of Modernity: Japan
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 354	(3)	Sexuality and Representation
ENGL 363	(3)	Studies in the History of Film 3
ENGL 366	(3)	Film Genre
ENGL 374	(3)	Film Movement or Period
ENGL 379	(3)	Film Theory
ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema

ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film
ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français 1
FREN 311	(3)	Cinéma français 2
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	German Cinema from 1895
GERM 370	(3)	Special Topics in German Film
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 477	(3)	Italian Cinema and Video
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar

4 Bachelor of Arts and Science

4.1 About the Faculties

The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by Arts and one offered by Science. The B.A. & Sc. is intended for students with well-defined interdisciplinary interests, and is not meant as a "compromise" between a B.A. and a B.Sc. degree. If you are more interested in Arts, but would like to study some Science, you can do so within the B.A. degree. Similarly, if you are more interested in Science, but would like to study some Arts, you can do so within the B.Sc. degree.

To learn more about the Faculty of Arts, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > The Faculty > [section 3.1: About the Faculty of Arts](#)*. To learn more about the Faculty of Science, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > The Faculty > [section 13.1: About the Faculty of Science](#)*.

4.2 Programs and Teaching in Arts and in Science

Programs and teaching in Arts are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > The Faculty > section 3.3: Programs and Teaching in Arts*. Those in Science are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > The Faculty > section 13.3: Programs and Teaching in Science*. The two faculties jointly offer the B.A. & Sc., so students pursuing that degree are at home in both Arts and Science.

4.3 About the Bachelor of Arts and Science (Undergraduate)

The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by Arts and one offered by Science. The B.A. & Sc. is intended for students with well-defined interdisciplinary interests, and is not meant as a "compromise" between a B.A. and a B.Sc. degree. If you are more interested in Arts, but would like to study some Science, you can do so within the B.A. degree. Similarly, if you are more interested in Science, but would like to study some Arts, you can do so within the B.Sc. degree.

4.3.1 Location

853 Sherbrooke Street West
Montreal, Quebec H3A 0G5
Canada

Telephone: 514-398-7179
Website: www.mcgill.ca/basc

Science Office for Undergraduate Student Advising (SOUSA)

Telephone: 514-398-5442
Website: www.mcgill.ca/science/student

The Science Office for Undergraduate Student Advising (SOUSA) is responsible for advising B.A. & Sc. students and is located in Dawson Hall.

4.3.2 Administrative Officers

For a listing of administrative officers in the Faculty of Arts, refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > section 3.4.2: Administrative Officers* and for those in the Faculty of Science, refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > section 13.4.2: Administrative Officers*. Note that the Director of Advising Services, Science, is responsible for students pursuing a B.A. & Sc.

The *B.A. & Sc. Program Administration Committee* (PAC), which oversees the curriculum and regulations for the degree, consists of the following members:

B.A. & Sc. Program Administration Committee (PAC)

Laurie Hendren; B.Sc., M.Sc.(Qu.), Ph.D.(C'nell)	Chair; Associate Dean (Academic) Faculty of Science
Nicole Allard; B.A.(W. Ont.), M.A.(Guelph), M.Ed.(McG.)	Adviser to the Committee; Director of Advising Services (SOUSA)
Bruce A. Arndtsen; B.A.(Car. College), Ph.D.(Stan.)	Chemistry
Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)	Program Director; Art History & Communication Studies
Gillian Lane-Mercier; B.A., M.A.(Univ. de Montpellier), Ph.D. (McG.)	Associate Dean (Academic Administration and Oversight), Faculty of Arts
Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.)	Biology
Tobias Rees; Magister Artium(Eberhard Karls-Universität Tübingen), Diploma Neuroplasticity(Institute Pasteur, Paris, France), Ph.D.(Calif., Berk.)	Social Studies of Medicine
Stéfan Sinclair; B.A.(Br. Col.), M.A.(Vic., BC), Ph.D.(Qu.)	Languages, Literatures, and Cultures
Malek Yalaoui; B.A.(McG.)	Administrative Coordinator, Faculty of Science, Dean's Office
Student representatives (2)	B.A. & Sc. Program

4.3.3 Science Office for Undergraduate Student Advising (SOUSA)

The Science Office for Undergraduate Student Advising (SOUSA) provides ongoing advice and guidance on academic issues related to programs, degree requirements, registration, course change, withdrawal, deferred exams, supplemental exams, academic standing, inter- and intra-faculty transfer, year or term away, transfer credits, second programs, second degrees, and graduation.

Every student in the B.A. & Sc. degree is assigned an adviser in SOUSA. The adviser's name appears near the top of your Advising Transcript on Minerva. You can contact your adviser directly, or if you do not yet have a SOUSA adviser, email adviser.science@mcgill.ca.

SOUSA advisers provide assistance with degree planning and are a valuable referral source. They are a good place to start if you are not sure where to address your question. They also offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions.

Special requests can be made, in writing, to the Director of Advising Services, Science, who is responsible for students pursuing a B.A. & Sc.

The Committee on Student Standing (CSS) of the Faculty of Science will consider appeals of the Director of Advising Services' decisions. For information about CSS, see the Director of Advising Services' assistant.

For more information, refer to www.mcgill.ca/basc/students/advising.

4.4 Degree Admission Requirements

For information about admission requirements to the B.A. & Sc., refer to the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

For information about interfaculty or inter-degree transfers, refer to *University Regulations and Resources* > *Undergraduate* > *Registration* > [section 1.3.15: Interfaculty Transfer](#), as well as to the relevant information posted on the Science Office for Undergraduate Student Advising (SOUSA) website at www.mcgill.ca/science/student/general.

4.5 Degree Requirements

Each student pursuing a B.A. & Sc. must be aware of the regulations as stated in this section of this publication and on the McGill and Science Office for Undergraduate Student Advising (SOUSA) websites.

While departmental and Faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of course selection and registration, for compliance with, and completion of, program and degree requirements, and for the observance of regulations and deadlines *rests with you*. It is your responsibility to seek guidance from the SOUSA Office if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

To be eligible for a B.A. & Sc., you must fulfil all Faculty degree and program requirements as indicated below:

[section 4.5.1: Minimum Credit Requirement](#)

[section 4.5.2: Residency Requirement](#)

Programs, Courses and University Regulations > *University Regulations and Resources* > *Undergraduate* > *Student Records* > [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#)

[section 4.5.3: Time and Credit Limit for Completion of the Degree](#)

[section 4.5.6: Course Requirements](#)

4.5.1 Minimum Credit Requirement

You must complete the minimum credit requirement for the degree as specified in your letter of admission.

Students are normally admitted to a four-year degree requiring the completion of 120 credits, but advanced standing of up to 30 credits may be granted if you obtain satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests.

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of a program. In this case, a new GPA will be calculated. The Director of Advising Services, Science, in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission.

4.5.2 Residency Requirement

To obtain a B.A. & Sc., you must satisfy the following residency requirements: a minimum of 60 credits of courses used to satisfy the B.A. & Sc. requirements must be taken and passed at McGill, exclusive of any courses completed as part of the math and science requirements of the B.A. & Sc. Freshman program. At least two-thirds of all departmental program requirements (Multi-track, Honours, Interfaculty) must normally be completed at McGill, not including courses completed in a prior McGill degree. Exceptionally, students in major concentrations or interfaculty or honours programs who pursue an approved

Study Away or Exchange program may, with prior approval from both their department and the Director of Advising Services, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

4.5.3 Time and Credit Limit for Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration. If you are a student in the Freshman program, you become subject to these regulations one year after your initial registration. If you need or want to exceed this time limit, you must receive permission from the Director of Advising Services, Science, to continue your studies.

If you are registered in the B.A. & Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you obtain 120 credits. If you want to remain at McGill beyond that semester, you must also seek permission of the Director of Advising Services, Science. Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. If permission is granted, you will receive credit only for required and complementary courses necessary to complete program requirements.

4.5.4 Bachelor of Arts and Science (B.A. & Sc.) - Freshman Program (30 credits)

Students who need to complete 97-120 credits to fulfil their degree requirements are admitted to the Freshman Program. Students with specific career goals should consult an academic adviser about their choice of program within the B.A. & Sc. However, students intending to pursue further studies following the B.A. & Sc. should refer to the admissions requirements of particular programs for the appropriate prerequisite courses.

In particular, students should note the following:

- The minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools.
- The Major Concentration in Psychology may not provide a sufficiently focused background for admission to many graduate programs in Psychology.
- The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

For further details, refer to information about the B.A. & Sc. Freshman Program on the website at http://www.mcgill.ca/science/sousa/new_students/.

Foundational Courses

The Freshman Program requirements include foundational courses in both Science and Arts which must be selected as follows:

MATH

At least two mathematics courses:

One of a first Calculus:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

One of a second Calculus:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

A Linear Algebra course:

MATH 133	(3)	Linear Algebra and Geometry

SCIENCE

At least three foundational science courses:

One or more of Biology or Chemistry:

* Note: CHEM 120 is not open to students who have taken CHEM 115.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 120*	(4)	General Chemistry 2

One of General Chemistry:

CHEM 110	(4)	General Chemistry 1
CHEM 115	(4)	Accelerated General Chemistry: Giants in Science

One of Mechanics:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

One of Electromagnetism:

Note: PHYS 101 is a prerequisite for PHYS 102; and PHYS 131 is a prerequisite for PHYS 142.

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

ARTS

At least three Arts courses (or 9 credits) to be chosen in two of the following three categories: Humanities, Languages and Social Sciences.

A maximum of two courses (or 6 credits) may be chosen from one category, and no more than two courses (or 6 credits) can be taken in any one department.

Note: No course may fulfil the requirements for more than one program, including the B.A. & Sc. Freshman Program.

Humanities (Literature and Civilization):

Courses selected from the following subjects:

- Art History and Communications Studies (ARTH and COMS)
- Classics (CLAS)
- East Asian Studies (EAST)
- English (ENGL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (HISP)
- Islamic Studies (ISLA)
- Italian studies (ITAL)
- Jewish Studies (JWST)
- Philosophy (PHIL)
- Religious Studies (RELG)
- Russian Studies (RUSS)

Languages:

Courses may be taken in this category to improve language skills.

Languages include:

- Classics (Latin, Ancient Greek or Modern Greek) (CLAS)
- East Asian Studies (Chinese, Japanese, Korean) (EAST)
- English as a Second Language (CEAP, CESL)
- French as a Second Language (FRSL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (Spanish) (HISP)

- Islamic Studies (Arabic, Persian, Turkish, Urdu) (ISLA)
- Italian (ITAL)
- Jewish Studies (Hebrew, Yiddish) (JWST)
- Russian and Slavic Studies (Polish, Russian, Armenian, Czech) (RUSS)

Social Sciences:

Courses selected from the following subjects:

- Anthropology (ANTH)
- Economics (ECON)
- History (HIST)
- Linguistics (LING)
- Political Science (POLI)
- Sociology (SOCI)

Advanced Standing/Transfer Credits

Students who have completed the Diploma of Collegial Studies, Advanced Placement exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill placement examinations may receive exemption and/or credit for all or part of the Mathematics and foundational science courses as well as exemption from all or part of the Arts courses requirement of the Freshman Program. Similarly, students who have completed courses at other universities or colleges may receive exemptions and/or credits.

Advanced Placement Examination results with a score of 4 or 5 must be declared by the student at the time of initial registration at the University.

For more information about advanced standing, please consult: <http://www.mcgill.ca/students/transfercredit/>. Students must carefully select their mathematics and science Freshman courses so that they have all the required prerequisites for their intended departmental programs.

4.5.5 Departmental Programs

If you are pursuing a B.A. & Sc., other than those registered in the Freshman program, you are required to have an approved program (multi-track, honours, joint honours, interfaculty), and to select your courses in each term with a view to timely completion of your degree and program requirements. You must complete one of the program streams described below.

The B.A. & Sc. degree includes a **required integrative course (BASC 201, 3 credits)**, plus electives (10–15 credits).

4.5.5.1 Multi-Track System

To recognize the diversity of student backgrounds and interests and the multiple routes to understanding provided by a modern university, the Faculties of Arts and of Science offer a 90-credit multi-track system that includes a major concentration in one faculty complemented by either a major concentration or two minors/minor concentrations (see NOTE below) in the other faculty and that may be completed in one of the following ways:

Options

- Arts Major Concentration (36 credits) + Science Major Concentration (36–38 credits) (see [section 4.9: Overview of Programs Offered](#) for a list of programs open to students in the B.A. & Sc.)

Regulations

- Programs offered by Computer Science, Mathematics and Statistics, and Psychology are considered Science programs for the purpose of the B.A. & Sc.
- Within both options, all concentrations must be in different academic units. Thus, you may take a Geography program either in Arts or in Science, but not in both
- Students will include within the 36 or 18 credits of their major concentrations or minors or minor concentrations any university-level (200 or above) prerequisites to required courses within their programs
- No course may fulfil the requirements for more than one program

Definitions

- *Units*: academic departments or administrative equivalents
- *Programs*: lists of required and complementary courses (including university-level prerequisites for required courses) prepared and maintained by units
- *Major Concentration*: a program of 36–38 credits taken from a unit's course offerings

Definitions

- *Minor Concentration:* a program of 18 credits taken from a unit's course offerings. Expandable minor concentrations are those that can, on the completion of 18 additional approved credits, be expanded into a major concentration within the appropriate unit.

4.5.5.2 Honours Program

Honours programs demand a high degree of specialization, and require you to satisfy specific departmental and Faculty Honours requirements while maintaining good Academic Standing. They are designed to prepare you for graduate study. Students in the B.A. & Sc. who complete an approved honours program must also complete an approved minor concentration or a minor in the Faculties of Arts or of Science. You must complete at least 21 credits in the Faculty of Arts and at least 21 credits in the Faculty of Science as part of your honours program and your minor concentration or minor program. See [section 4.9.3: Honours Programs](#) for a list of available programs.

To choose the Honours option, you must meet the GPA/CGPA requirements set out in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.4: Graduation Honours: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#)*.

4.5.5.3 Joint Honours Program

If you want to study at the honours level in two disciplines, you can combine a joint honours program component from an Arts discipline with one from a Science discipline; see [section 4.9.4: Joint Honours Programs](#) for a list of available programs. Each joint honours component consists of a maximum of 36–38 required and complementary credits (not including program prerequisites). In cases where a minimum of 24 credits are in courses normally restricted to Honours students, the total of required and complementary credits may be as few as 30.

To choose the Joint Honours option, you must meet the GPA/CGPA requirements set out in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.4: Graduation Honours: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#)*.

4.5.5.4 Interfaculty Program

An interfaculty program is an approved selection of courses constituting a concentration in an intellectually coherent and interfaculty field of studies. These courses must include approved selections from the Faculties of Arts and of Science and possibly other faculties. See [section 4.9.5: Interfaculty Programs](#) for a list of approved programs. Students in the B.A. & Sc. who complete an approved interfaculty program must also complete an approved minor concentration or a minor in the Faculties of Arts or of Science. You must complete at least 21 credits in the Faculty of Arts and at least 21 credits in the Faculty of Science as part of your interfaculty program and your minor concentration or minor program.

4.5.6 Course Requirements

All required and complementary courses used to fulfil program requirements, including the Freshman program, must be completed with a grade of C or better. If you fail to obtain a satisfactory grade in a required course, you must either pass the supplemental examination in the course or do additional work for a supplemental grade, if these options are available, or repeat the course. Course substitution will be allowed only in special cases; students should consult their academic adviser.

Normally, you are permitted to repeat a failed course only once. (Failure is considered to be a grade of less than C or the administrative failures of J and KF.) If a required course is failed a second time, you must appeal to the Director of Advising Services, Science, for permission to take the course a third time. If permission is denied by the Director of Advising Services and/or by the Committee on Student Standing of the Faculty of Science, on appeal, you must withdraw from the program. If the failed course is a complementary course required by the program, you may choose to replace it with another appropriate complementary course. If you choose to substitute another complementary course for a complementary course in which a D was received, credit for the first course will still be given, but as an elective. If you repeat a required course in which a D was received, credit will be given only once.

The B.A. & Sc. degree includes a required integrative course (BASC 201, 3 credits), plus electives (10–15 credits).

For a list of all programs available to B.A. & Sc. students, and full details of the course requirements for all programs as well as the locations of departmental advisory offices, program directors, and telephone numbers for further information, see [section 4.9: Overview of Programs Offered](#).

4.5.6.1 Course Overlap

You will not receive additional credit toward your degree for any course for which you have already received credit at McGill, CEGEP, at another university, or as a result of Advanced Placement, Advanced Level, International Baccalaureate, or French Baccalaureate exams. It is your responsibility to consult the Science Office for Undergraduate Student Advising (SOUSA) or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication.

Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: www.mcgill.ca/students/transferecredit.

Sometimes two different departments offer the same course. Such courses are called "double-prefix" courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and Physics students take PHYS XYZ. If different departments offer a double-prefix course in alternate years, you may take whichever course best fits your schedule.

Credit for computer science and statistics courses will be given with the stipulations specified under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > [section 13.6.5.1: Course Overlap](#)*.

4.5.6.2 Courses Outside the Faculties of Arts and of Science

The following regulations apply to students in the B.A. & Sc. who want to take courses outside the Faculties of Arts and of Science:

- Regardless of your minimum credit requirement toward your B.A. & Sc., you are allowed a maximum of 12 credits in ELECTIVE and/or COMPLEMENTARY courses taken in faculties other than the Faculties of Arts and of Science.
- Students in certain designated programs that include a number of REQUIRED and COMPLEMENTARY courses in other faculties are permitted a maximum of 30 credits outside the Faculties of Arts and of Science. These programs are the Interfaculty and Honours programs in Environment, the Minor concentration in Environment, the Interfaculty and Honours programs in Sustainability, Science and Society, and the Major concentration in Geography (Urban Systems).
- Any courses taught at McGill University may be used toward the maximum allowed, except for courses taught by the School of Continuing Studies, for which you receive credits only in Continuing Studies. Courses taught by the McGill Writing Centre are excluded from this rule and can count for credit in your degree (see the SOUSA website for a list of approved courses: www.mcgill.ca/science/student/continuingstudents/basc/conted).
- For the purpose of this policy, courses taught in other faculties and specifically listed in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate* or *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate* are considered as courses taught in the Faculties of Arts and of Science.
- **The maximum number of credits allowed will be strictly enforced.**

4.5.6.3 Distance Education Courses

- A maximum of 6 credits of courses taught through distance education may be used as electives toward the B.A. & Sc. degree at McGill.
- Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:
 - the course is given by a government-accredited, degree-granting institution acceptable to McGill;
 - the course counts for credit toward degrees granted at the institution giving the course;
 - prior approval for the course is obtained from the Science Office for Undergraduate Student Advising (SOUSA).
- The combined total of regular course credits and distance education course credits may not exceed the permitted maximum number of credits per term according to the regulations for the B.A. & Sc. (see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.3: Course Load](#)*).
- Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it. In such cases, prior approval must be obtained from your program adviser and the Director of Advising Services, Science.

4.5.6.4 Courses in English as a Second Language (ESL)

ESL courses are only open to students whose primary language is not English and who have studied for fewer than five years in English-language secondary institutions. As a student in the B.A. & Sc., you may take a maximum of 12 credits, including academic writing courses for non-anglophones, from the list of ESL courses published at www.mcgill.ca/science/student/continuingstudents/basc/conted.

4.5.6.5 Registration for First-Year Seminars

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than is available in large introductory courses. These seminars endeavour to teach the latest scholarly developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis. The maximum number of students in any seminar is 25, although some are limited to even fewer than that.

You may take only one First-Year Seminar during your first year at McGill. If you register for more than one, you will be obliged to withdraw from all but one of them.

A list of First-Year Seminars is available in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Faculty of Arts Degree Requirements > Course Requirements > [section 3.6.5.9: First-Year Seminar Courses](#)* and *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Faculty of Science Degree Requirements > Course Requirements > [section 13.6.5.5: Registration for First-Year Seminars](#)*.

4.6 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult an academic adviser in your proposed department of study to obtain advice and approval of your course selection (please see *Departmental Programs*). To facilitate program planning, you must present your transcript(s) and letter of admission. If you have not fulfilled the B.A. & Sc. Freshman program requirements, you should also seek advice from an adviser in the Science Office for Undergraduate Student Advising (SOUSA). For a detailed description of advising and registration procedures, you should refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.11: Undergraduate Advising](#)*, to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3: Registration](#)*, and to the website for newly

admitted undergraduate students at www.mcgill.ca/newstudents, as well as to the information posted on the SOUSA website at www.mcgill.ca/science/student, and the departmental websites.

If you need 97–120 credits to complete your degree requirements, you will normally be registered in a Freshman program until you complete your first year. You must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures, you should refer to the website for newly admitted undergraduate students at www.mcgill.ca/newstudents, and to the information on the SOUSA website, www.mcgill.ca/science/student.

Advising for all returning students takes place in March for the upcoming academic year. For more information, refer to www.mcgill.ca/basc/students/advising.

4.6.1 Choosing a B.A. & Sc. Program

The B.A. & Sc. is intended for students with well-defined interdisciplinary interests. There are several options for the main program, all of which specify 75–80 of the 90 credits, leaving only 10–15 credits for electives. Since there are relatively few electives, students entering a program in the B.A. & Sc. degree should have a clear idea of their objectives, goals, and intended areas of study, so that they can plan their curriculum carefully.

It should be noted that there also exists considerable flexibility within the B.A. (Faculty of Arts) and B.Sc. (Faculty of Science) programs. If you are more interested in Arts, but would like to study some Science, you can do so within the B.A. degree. Similarly, if you are more interested in Science, but would like to study some Arts, you can do so within the B.Sc. degree. For example, B.Sc. students may complete minor concentrations in Arts and vice versa.

There are four ways to complete programs in the B.A. & Sc. degree:

Multi-Track System

The multi-track system is intended for students who want a program that includes significant components from both Arts and from Science.

You complete 36 credits of Arts courses, 36–38 credits of Science courses, and a required integrative course (BASC 201, 3 credits). You can either combine an Arts major concentration with a Science major concentration (36–38 credits each) or you can select a major concentration from one faculty and two 18-credit minor concentrations* from the other. Additional guidelines for the multi-track system can be found in [section 4.5.5: Departmental Programs](#). You will find the program descriptions for the major and minor concentrations in Science, which are unique to the B.A. & Sc. within this section of this publication.

* Effective September 2013 the multi-track option to complete two minors or two minor concentrations will no longer be available. Only one multi-track option will remain.

Descriptions of programs offered in Arts are located under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate*.

Interfaculty Programs

Interfaculty programs are interdisciplinary in nature. There are currently three such programs: Environment; Cognitive Science; and Sustainability, Science and Society. In these programs, you complete 54 credits of the Interfaculty program, a minor of 18 credits, and a required integrative course (BASC 201, 3 credits). You must complete at least 21 credits in the Faculty of Arts and at least 21 credits in the Faculty of Science as part of your interfaculty program and your minor concentration or program.

Environment

The growth of technology, globalization of economies, and rapid increases in population and per capita consumption have all had dramatic environmental impacts. The Faculty program in Environment for the Bachelor of Arts and Science is designed to provide students with a broad “Liberal Arts/Science” training. In combination with careful mentoring, this program offers a great degree of flexibility, allowing students to develop the skills and knowledge base required to face the myriad of environmental problems that currently need to be addressed. Further information about Environment programs and academic advising can be found at www.mcgill.ca/mse.

Cognitive Science

The Interfaculty program in Cognitive Science offered within the B.A. & Sc. degree is the only major program currently offered at McGill for students interested in this discipline. The requirements encourage you to choose courses in two of the five subject areas in Cognitive Science (Computer Science, Linguistics, Neuroscience, Philosophy, Psychology) as the focus of your program. In addition, if you are interested in research in this field, you may include up to 12 credits of research courses within your program. Further information can be found at www.mcgill.ca/cogsci.

Sustainability, Science and Society

Food security, access to clean water, poverty, climate change, biodiversity loss, sustainable energy production—a long list of challenges face human societies in the 21st century. In the face of these multiple challenges, the grand imperative of the 21st century is Sustainable Well-being—in other words, how can we provide for a world population that could stabilize at 9–10 billion, while also maintaining the Earth’s life support systems. Find out more about this interdisciplinary program at www.geog.mcgill.ca/SSS/index.html.

Joint Honours

The Joint Honours option is similar to the multi-track system except that you complete two joint honours components, one in Arts and one in Science. Currently, the choice of Science component is restricted to either Math or Psychology. However, there is a great range of choices for the Arts component.

Joint Honours

To choose the Joint Honours option, you must meet the GPA/CGPA requirements set out in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.4: Graduation Honours: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#)*.

Honours

There are three B.A. & Sc. Honours programs. The Honours programs in Environment; Cognitive Science; and Sustainability, Science and Society are similar to their relevant Interfaculty programs, but each has additional GPA requirements and an additional 6-credit required research course. If you are completing an honours program, you must also complete a minor concentration or program, and a required integrative course (BASC 201, 3 credits). You must complete at least 21 credits in the Faculty of Arts and at least 21 credits in the Faculty of Science as part of your honours program and your minor concentration or program.

To choose the Honours option, you must meet the GPA/CGPA requirements set out in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.4: Graduation Honours: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#)*.

4.6.2 Preparation for Graduate School

Any choice of undergraduate degree and program constrains options for graduate school. The B.A. & Sc. provides good preparation for graduate degrees in integrated disciplines such as Cognitive or Environmental Science as well as in the new Sustainability, Science and Society program. Depending on the Arts or Science specific program you want to enter in graduate school, the B.A. & Sc. may or may not be adequate preparation. If you intend to pursue an Arts or Science specific program at the graduate level, you should consult academic advisers in that discipline at McGill and at universities where you intend to apply in order to find out whether the B.A. & Sc. will prepare you adequately. If you are considering continuing on in a specific Science graduate program, you should examine the difference between the preparation provided by the 36-credit major concentrations in the B.A. & Sc. program versus the significantly more specialized major and honours programs offered in the B.Sc. programs.

4.7 Freshman Interest Groups

Freshman Interest Groups (FIGs) are groups of approximately 15 U0 students in the B.Sc. or B.A. & Sc., led by a professor in the Faculty of Science or Faculty of Medicine and an upper-year undergraduate student. They meet once every two weeks in the Fall semester to discuss a wide range of topics, such as science in the news, program choices, undergraduate research opportunities, or just aspects of life in Montreal. The purpose of a FIG is to ease the transition to McGill and Montreal and to provide you an opportunity to interact with a professor and with other U0 students in a small group. FIGs carry no credit and there is no charge. For more information and to see how to register, refer to www.mcgill.ca/science/student/fig.

4.8 Examinations

You should see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.6: Examinations: General Information](#)* for information about final examinations and deferred examinations.

The exam schedules are posted on the McGill website, www.mcgill.ca/students/exams, normally one month after the start of classes for the tentative Examination Schedule, and two months after the start of classes for the final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

4.9 Overview of Programs Offered

- Minor concentrations or minors; see [section 4.9.1: Minor Concentrations or Minors](#)
- Major concentrations; see [section 4.9.2: Major Concentrations](#)
- Honours programs; see [section 4.9.3: Honours Programs](#)
- Joint honours programs; see [section 4.9.4: Joint Honours Programs](#)
- Interfaculty programs; see [section 4.9.5: Interfaculty Programs](#)

4.9.1 Minor Concentrations or Minors

4.9.1.1 Faculty of Arts

The Arts minor concentrations available to B.A. & Sc. students are listed here. Since the B.A. & Sc. degree requires a certain number of credits in the Arts and in the Sciences, there are special requirements for B.A. & Sc. students. To be counted as an Arts minor or minor concentration, the program must include at least 15 credits of Arts courses. Similarly, to be counted as a Science minor or minor concentration, the program must include at least 15 credits of Science courses.

For example, a student completing the 18-credit African Studies Minor Concentration in Arts must complete at least 15 of those credits in Arts courses and at most 3 credits in Science courses. As another example, a student completing a 24-credit Science Minor in Interdisciplinary Life Sciences must complete at least 15 credits in Science courses and at most 9 credits in Arts courses.

Faculty of Arts Minor Concentrations or Minors

African Studies – [section 4.10.2.1: Bachelor of Arts \(B.A.\) - Minor Concentration African Studies \(18 credits\)](#)

Anthropology – [section 4.10.3.1: Bachelor of Arts \(B.A.\) - Minor Concentration Anthropology \(18 credits\)](#)

Art History – [section 4.10.4.1: Bachelor of Arts \(B.A.\) - Minor Concentration Art History \(18 credits\)](#)

Canadian Ethnic and Racial Studies – [section 4.10.8.1: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Ethnic and Racial Studies \(18 credits\)](#)

Canadian Studies – [section 4.10.9.1: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Studies \(18 credits\)](#)

Catholic Studies – [section 4.10.10.1: Bachelor of Arts \(B.A.\) - Minor Concentration Catholic Studies \(18 credits\)](#)

Classics – [section 4.10.12.1: Bachelor of Arts \(B.A.\) - Minor Concentration Classics \(18 credits\)](#)

Communication Studies – [section 4.10.4.2: Bachelor of Arts \(B.A.\) - Minor Concentration Communication Studies \(18 credits\)](#)

Comparative Politics – [section 4.10.38.1: Bachelor of Arts \(B.A.\) - Minor Concentration Comparative Politics \(18 credits\)](#)

East Asian Language and Literature – [section 4.10.17.2: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Language and Literature \(18 credits\)](#)

East Asian Cultural Studies – [section 4.10.17.1: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Cultural Studies \(18 credits\)](#)

East Asian Studies, Supplementary – [section 4.10.17.3: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration East Asian Language \(18 credits\)](#)

Economics – [section 4.10.18.1: Bachelor of Arts \(B.A.\) - Minor Concentration Economics \(18 credits\)](#)

English – Cultural Studies – [section 4.10.19.1: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)

English – Drama and Theatre – [section 4.10.19.2: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)

English – Literature – [section 4.10.19.3: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)

Geography – [section 4.10.22.1: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(18 credits\)](#)

Geography (Urban Systems) – [section 4.10.22.2: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(Urban Systems\) \(18 credits\)](#)

German Language – [section 4.10.29.1: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#)

German Literature – [section 4.10.29.2: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature \(18 credits\)](#)

German Literature and Culture in Translation – [section 4.10.29.3: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature and Culture in Translation \(18 credits\)](#)

Hispanic Languages – [section 4.10.29.4: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Languages \(18 credits\)](#)

Hispanic Literature and Culture – [section 4.10.29.5: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Literature and Culture \(18 credits\)](#)

History – [section 4.10.23.1: Bachelor of Arts \(B.A.\) - Minor Concentration History \(18 credits\)](#)

History and Philosophy of Science – [section 4.10.24.1: Bachelor of Arts \(B.A.\) - Minor Concentration History and Philosophy of Science \(18 credits\)](#)

International Development Studies – [section 4.10.26.1: Bachelor of Arts \(B.A.\) - Minor Concentration International Development Studies \(18 credits\)](#)

International Relations – [section 4.10.38.2: Bachelor of Arts \(B.A.\) - Minor Concentration International Relations \(18 credits\)](#)

Islamic Studies – [section 4.10.27.1: Bachelor of Arts \(B.A.\) - Minor Concentration Islamic Studies \(18 credits\)](#)

Italian Studies – [section 4.10.29.6: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#)

Jewish Law – [section 4.10.28.2: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Law \(18 credits\)](#)

Jewish Studies – [section 4.10.28.1: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Studies \(18 credits\)](#)

Langue et littérature françaises – Critique littéraire – [section 4.10.21.1: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Critique littéraire \(18 crédits\)](#)

Faculty of Arts Minor Concentrations or Minors

Langue et littérature françaises – Études et pratiques littéraires – [section 4.10.21.2: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Études et pratiques littéraires \(18 crédits\)](#)

Langue et littérature françaises – Langue française – [section 4.10.21.3: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française \(18 crédits\)](#)

Langue et littérature françaises – Langue française et traduction – [section 4.10.21.4: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française et traduction \(18 crédits\)](#)

Langue et littérature françaises – Traduction – [section 4.10.21.5: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Traduction \(18 crédits\)](#)

Linguistics – [section 4.10.31.1: Bachelor of Arts \(B.A.\) - Minor Concentration Linguistics \(18 credits\)](#)

Middle East Languages – [section 4.10.33.1: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Languages \(18 credits\)](#)

Middle East Studies – [section 4.10.33.2: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Studies \(18 credits\)](#)

North American Studies – [section 4.10.34.1: Bachelor of Arts \(B.A.\) - Minor Concentration North American Studies \(18 credits\)](#)

Philosophy – [section 4.10.35.1: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy \(18 credits\)](#)

Philosophy and Western Religions – [section 4.10.36.1: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy and Western Religions \(18 credits\)](#)

Political Economy – [section 4.10.38.3: Bachelor of Arts \(B.A.\) - Minor Concentration Political Economy \(18 credits\)](#)

Political Science – [section 4.10.38.4: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science \(18 credits\)](#)

Political Science: Canada/Quebec – [section 4.10.38.5: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science: Canada/Québec \(18 credits\)](#)

Political Theory – [section 4.10.38.6: Bachelor of Arts \(B.A.\) - Minor Concentration Political Theory \(18 credits\)](#)

Politics, Law and Society – [section 4.10.38.7: Bachelor of Arts \(B.A.\) - Minor Concentration Politics, Law and Society \(18 credits\)](#)

Quebec Studies – [section 4.10.40.1: Bachelor of Arts \(B.A.\) - Minor Concentration Quebec Studies / La concentration Mineur en Études sur le Québec \(18 crédits\)](#)

Russian – [section 4.10.29.7: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 credits\)](#)

Russian Culture – [section 4.10.29.8: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 credits\)](#)

Scriptural Languages – [section 4.10.41.1: Bachelor of Arts \(B.A.\) - Minor Concentration Scriptural Languages \(18 credits\)](#)

Sexual Diversity Studies – [section 4.10.42.1: Bachelor of Arts \(B.A.\) - Minor Concentration Sexual Diversity Studies \(18 credits\)](#)

Social Studies of Medicine – [section 4.10.43.1: Bachelor of Arts \(B.A.\) - Minor Concentration Social Studies of Medicine \(18 credits\)](#)

Sociology – [section 4.10.44.1: Bachelor of Arts \(B.A.\) - Minor Concentration Sociology \(18 credits\)](#)

South Asia – [section 4.10.38.8: Bachelor of Arts \(B.A.\) - Minor Concentration South Asia \(18 credits\)](#)

Women's Studies – [section 4.10.46.1: Bachelor of Arts \(B.A.\) - Minor Concentration Women's Studies \(18 credits\)](#)

World Cinemas – [section 4.10.47.1: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 credits\)](#)

World Religions – [section 4.10.41.2: Bachelor of Arts \(B.A.\) - Minor Concentration World Religions \(18 credits\)](#)

4.9.1.2 Faculty of Science

The Science minors or minor concentrations available to B.A. & Sc. students are listed here.

Faculty of Science Minor Concentrations or Minors

Atmospheric Science – [section 4.10.5.1: Bachelor of Science \(B.Sc.\) - Minor Atmospheric Science \(18 credits\)](#)

Biology – Cell/Molecular – [section 4.10.6.1: Bachelor of Arts and Science \(B.A. & Sc.\) - Minor Concentration Biology - Cell/Molecular \(19 credits\)](#)

Biology – Organismal – [section 4.10.6.2: Bachelor of Arts and Science \(B.A. & Sc.\) - Minor Concentration Biology - Organismal \(19 credits\)](#)

Chemistry – [section 4.10.11.1: Bachelor of Science \(B.Sc.\) - Minor Chemistry \(18 credits\)](#)

Computer Science – [section 4.10.14.1: Bachelor of Arts \(B.A.\) - Minor Concentration Computer Science \(18 credits\)](#)

Environment – [section 4.10.20.1: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Minor Environment \(18 credits\)](#)

Geographic Information Systems and Remote Sensing – [section 4.10.22.4: Bachelor of Science \(B.Sc.\) - Minor Geographic Information Systems and Remote Sensing \(18 credits\)](#)

Faculty of Science Minor Concentrations or Minors

Geography – [section 4.10.22.3: Bachelor of Science \(B.Sc.\) - Minor Geography \(18 credits\)](#)

Geology – [section 4.10.15.1: Bachelor of Science \(B.Sc.\) - Minor Geology \(18 credits\)](#) (previously named *Earth and Planetary Sciences*)

Interdisciplinary Life Sciences – [section 4.10.25.1: Bachelor of Science \(B.Sc.\) - Minor Interdisciplinary Life Sciences \(24 credits\)](#)

Mathematics – [section 4.10.32.1: Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(18 credits\)](#)

Physics – [section 4.10.37.1: Bachelor of Science \(B.Sc.\) - Minor Physics \(18 credits\)](#)

Psychology – [section 4.10.39.1: Bachelor of Arts \(B.A.\) - Minor Concentration Psychology \(18 credits\)](#)

Statistics – [section 4.10.32.2: Bachelor of Arts \(B.A.\) - Minor Concentration Statistics \(18 credits\)](#)

4.9.2 Major Concentrations

4.9.2.1 Faculty of Arts

Since the B.A. & Sc. degree requires a certain number of credits in the Arts and in the Sciences, there are special requirements for B.A. & Sc. students. To be counted as an Arts major concentration, the program must include at least 30 credits of Arts courses. Similarly, to be counted as a Science major concentration, the program must include at least 30 credits of Science courses.

For example, a student completing the 36-credit African Studies Major concentration in Arts must complete at least 30 of those credits in Arts courses and at most 6 credits in Science courses.

The Arts major concentrations available to B.A. & Sc. students are listed here.

Faculty of Arts Major Concentrations

African Studies – [section 4.10.2.2: Bachelor of Arts \(B.A.\) - Major Concentration African Studies \(36 credits\)](#)

Anthropology – [section 4.10.3.2: Bachelor of Arts \(B.A.\) - Major Concentration Anthropology \(36 credits\)](#)

Art History – [section 4.10.4.3: Bachelor of Arts \(B.A.\) - Major Concentration Art History \(36 credits\)](#)

Canadian Studies – [section 4.10.9.2: Bachelor of Arts \(B.A.\) - Major Concentration Canadian Studies \(36 credits\)](#)

Classics – [section 4.10.12.2: Bachelor of Arts \(B.A.\) - Major Concentration Classics \(36 credits\)](#)

East Asian Studies – [section 4.10.17.4: Bachelor of Arts \(B.A.\) - Major Concentration East Asian Studies \(36 credits\)](#)

Economics – [section 4.10.18.2: Bachelor of Arts \(B.A.\) - Major Concentration Economics \(36 credits\)](#)

English – Cultural Studies – [section 4.10.19.4: Bachelor of Arts \(B.A.\) - Major Concentration English - Cultural Studies \(36 credits\)](#)

English – Drama and Theatre – [section 4.10.19.5: Bachelor of Arts \(B.A.\) - Major Concentration English - Drama and Theatre \(36 credits\)](#)

English – Literature – [section 4.10.19.6: Bachelor of Arts \(B.A.\) - Major Concentration English - Literature \(36 credits\)](#)

Geography – [section 4.10.22.6: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(37 credits\)](#)

Geography (Urban Systems) – [section 4.10.22.7: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(Urban Systems\) \(36 credits\)](#)

German Language and Literature – [section 4.10.29.10: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Language and Literature \(36 credits\)](#) -

German Literature and Culture – [section 4.10.29.11: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Literature and Culture \(36 credits\)](#)

German Studies, Contemporary – [section 4.10.29.9: Bachelor of Arts \(B.A.\) - Major Concentration Contemporary German Studies \(36 credits\)](#)

Hispanic Languages – [section 4.10.29.12: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Languages \(36 credits\)](#)

Hispanic Literature and Culture – [section 4.10.29.13: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Literature and Culture \(36 credits\)](#)

History – [section 4.10.23.2: Bachelor of Arts \(B.A.\) - Major Concentration History \(36 credits\)](#)

International Development Studies – [section 4.10.26.2: Bachelor of Arts \(B.A.\) - Major Concentration International Development Studies \(36 credits\)](#)

Italian Studies – [section 4.10.29.14: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)

Jewish Studies – [section 4.10.28.3: Bachelor of Arts \(B.A.\) - Major Concentration Jewish Studies \(36 credits\)](#)

Langue et littérature françaises – Études et pratiques littéraires – [section 4.10.21.6: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

Faculty of Arts Major Concentrations

Langue et littérature françaises – Traduction – [section 4.10.21.7: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Traduction \(36 crédits\)](#)

Latin-American Studies – [section 4.10.30.1: Bachelor of Arts \(B.A.\) - Major Concentration Latin American Studies \(36 credits\)](#)

Linguistics – [section 4.10.31.2: Bachelor of Arts \(B.A.\) - Major Concentration Linguistics \(36 credits\)](#)

Middle East Studies – [section 4.10.33.3: Bachelor of Arts \(B.A.\) - Major Concentration Middle East Studies \(36 credits\)](#)

North American Studies – [section 4.10.34.2: Bachelor of Arts \(B.A.\) - Major Concentration North American Studies \(36 credits\)](#)

Philosophy – [section 4.10.35.2: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy \(36 credits\)](#)

Philosophy and Western Religions – [section 4.10.36.2: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy and Western Religions \(36 credits\)](#)

Political Science – [section 4.10.38.9: Bachelor of Arts \(B.A.\) - Major Concentration Political Science \(36 credits\)](#)

Quebec Studies – [section 4.10.40.2: Bachelor of Arts \(B.A.\) - Major Concentration Quebec Studies / La concentration Majeur en Études sur le Québec \(36 crédits\)](#)

Russian – [section 4.10.29.15: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)

Scriptures and Interpretations – [section 4.10.41.3: Bachelor of Arts \(B.A.\) - Major Concentration Scriptures and Interpretations \(36 credits\)](#)

Sociology – [section 4.10.44.2: Bachelor of Arts \(B.A.\) - Major Concentration Sociology \(36 credits\)](#)

Women's Studies – [section 4.10.46.2: Bachelor of Arts \(B.A.\) - Major Concentration Women's Studies \(36 credits\)](#)

World Religions – [section 4.10.41.4: Bachelor of Arts \(B.A.\) - Major Concentration World Religions \(36 credits\)](#)

4.9.2.2 Faculty of Science

The Science major concentrations available to B.A. & Sc. students are listed here.

Faculty of Science Major Concentrations

Biology – Cell/Molecular Option – [section 4.10.6.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Biology - Cell/Molecular \(36 credits\)](#)

Biology – Organismal Option – [section 4.10.6.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Biology - Organismal \(37 credits\)](#)

Chemistry – [section 4.10.11.2: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Chemistry \(36 credits\)](#)

Computer Science – [section 4.10.14.2: Bachelor of Arts \(B.A.\) - Major Concentration Computer Science \(36 credits\)](#)

Earth, Atmosphere and Ocean Sciences – [section 4.10.16.1: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Earth, Atmosphere and Ocean Sciences \(36 credits\)](#)

Geography – Physical Geography Option – [section 4.10.22.5: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Geography - Physical Geography \(36 credits\)](#)

Mathematics – [section 4.10.32.3: Bachelor of Arts \(B.A.\) - Major Concentration Mathematics \(36 credits\)](#)

Physics – [section 4.10.37.2: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Physics \(36 credits\)](#)

Psychology – [section 4.10.39.2: Bachelor of Arts \(B.A.\) - Major Concentration Psychology \(36 credits\)](#)

Software Engineering – [section 4.10.14.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Software Engineering \(37 credits\)](#)

4.9.3 Honours Programs

There are three Honours programs available to B.A. & Sc. students:

- The Honours Interfaculty Program in Sustainability, Science and Society is described in detail in [section 4.10.45: Sustainability, Science and Society](#).
- The Honours Program in Cognitive Science is described in detail in [section 4.10.13: Cognitive Science](#).
- The Honours Program in Environment is described in detail in [section 4.10.20: Environment](#).

Students interested in an Honours degree should also consider the Joint Honours programs; see [section 4.9.4: Joint Honours Programs](#).

4.9.4 Joint Honours Programs

Joint Honours programs in the B.A. & Sc. are created by combining a Joint Honours program component from an Arts discipline with one from a Science discipline. Students must register for both Joint Honours program components. Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

4.9.4.1 Faculty of Arts

The Arts Joint Honours components available to B.A. & Sc. students are listed here.

Faculty of Arts Joint Honours Programs

- Anthropology** – [section 4.10.3.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Anthropology \(36 credits\)](#)
- Art History** – [section 4.10.4.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Art History \(36 credits\)](#)
- Canadian Studies** – [section 4.10.9.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Canadian Studies \(36 credits\)](#)
- Classics** – [section 4.10.12.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Classics \(36 credits\)](#)
- East Asian Studies** – [section 4.10.17.5: Bachelor of Arts \(B.A.\) - Joint Honours Component East Asian Studies \(36 credits\)](#)
- Economics** – [section 4.10.18.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics \(30 credits\)](#)
- English – Cultural Studies** – [section 4.10.19.7: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Cultural Studies \(36 credits\)](#)
- English – Drama and Theatre** – [section 4.10.19.8: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Drama and Theatre \(36 credits\)](#)
- English – Literature** – [section 4.10.19.9: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Literature \(36 credits\)](#)
- Geography** – [section 4.10.22.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Geography \(36 credits\)](#)
- German Studies** – [section 4.10.29.16: Bachelor of Arts \(B.A.\) - Joint Honours Component German Studies \(36 credits\)](#)
- Hispanic Studies** – [section 4.10.29.17: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)
- History** – [section 4.10.23.3: Bachelor of Arts \(B.A.\) - Joint Honours Component History \(36 credits\)](#)
- International Development Studies** – [section 4.10.26.3: Bachelor of Arts \(B.A.\) - Joint Honours Component International Development Studies \(36 credits\)](#)
- Italian Studies** – [section 4.10.29.18: Bachelor of Arts \(B.A.\) - Joint Honours Component Italian Studies \(36 credits\)](#)
- Jewish Studies** – [section 4.10.28.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Jewish Studies \(36 credits\)](#)
- Langue et littérature françaises – Études et pratiques littéraires** – [section 4.10.21.8: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation en langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)
- Langue et littérature françaises – Traduction** – [section 4.10.21.9: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation en langue et littérature françaises - Traduction \(36 crédits\)](#)
- Linguistics** – [section 4.10.31.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Linguistics \(36 credits\)](#)
- Middle East Studies** – [section 4.10.33.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Middle East Studies \(36 credits\)](#)
- Philosophy** – [section 4.10.35.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy \(36 credits\)](#)
- Philosophy and Western Religions** – [section 4.10.36.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy and Western Religions \(36 credits\)](#)
- Political Science** – [section 4.10.38.10: Bachelor of Arts \(B.A.\) - Joint Honours Component Political Science \(36 credits\)](#)
- Religious Studies - Asian Religions** – [section 4.10.41.5: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Asian Religions \(36 credits\)](#)
- Religious Studies - Western Religions** – [section 4.10.41.6: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Western Religions \(36 credits\)](#)
- Russian** – [section 4.10.29.19: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)
- Sociology** – [section 4.10.44.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Sociology \(36 credits\)](#)
- Women's Studies** – [section 4.10.46.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Women's Studies \(36 credits\)](#)

4.9.4.2 Faculty of Science

There are currently only two Science Joint Honours components available to B.A. & Sc. students, which are listed here.

Faculty of Science Joint Honours Programs

Mathematics – [section 4.10.32.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Mathematics \(36 credits\)](#)

Psychology – [section 4.10.39.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Psychology \(36 credits\)](#)

4.9.5 Interfaculty Programs

The Interfaculty programs available to B.A. & Sc. students are listed here.

Cognitive Science – [section 4.10.13.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program Cognitive Science \(54 credits\)](#)

Environment – [section 4.10.20.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program Environment \(54 credits\)](#)

Sustainability, Science and Society – [section 4.10.45.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 credits\)](#)

4.10 Academic Programs

The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by Arts and one offered by Science. The overall objective is to provide a broad, liberal education spanning substantive areas in the two faculties so that students can learn diverse content and varied methods of inquiry.

4.10.1 Programs in Arts or in Science

B.A. & Sc. programs include:

- B.A. & Sc. Arts programs
- B.A. & Sc. Science programs that are open to B.A. students (i.e., programs in Computer Science, Mathematics and Statistics, and Psychology as well as some in Geography)
- Science Minors that are open to B.A. & Sc. students
- B.A. & Sc. Science programs that are open only to B.A. & Sc. students

For a list of each B.A. & Sc. program, see [section 4.9: Overview of Programs Offered](#).

4.10.2 African Studies (AFRI)

African Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.4: African Studies \(AFRI\)](#)*.

4.10.2.1 Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

3 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa
ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960
HIST 413	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

Political Science

* Note: Course is counted only when African materials are taught.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

4.10.2.2 Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa
ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy

GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960
HIST 413	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

Political Science

* Note: Course is counted only when African materials are taught.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

4.10.3 Anthropology (ANTH)

The Department of Anthropology, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.5: Anthropology \(ANTH\)](#)*.

4.10.3.1 Bachelor of Arts (B.A.) - Minor Concentration Anthropology (18 credits)

The Minor Concentration Anthropology permits students to explore the development and diversity of human beings and human society and culture through courses in human evolution, prehistoric archaeology, and socio-cultural anthropology. Students may include courses in all of these fields, or may focus on one or two.

This program may be expanded to the Major Concentration Anthropology.

Complementary Courses (18 credits)

200 Level

3-9 credits selected from the following list:

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

Areas

3 credits from either one of the following area groups:

Ethnography

ANTH 304	(3)	Chinese Culture in Ethnography and Film
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 416	(3)	Environment/Development: Africa
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

Archaeology

ANTH 305	(3)	Arctic Prehistory
ANTH 307	(3)	Andean Prehistory
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory

ANTH 330	(3)	Traditional Whaling Societies
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa

6-12 credits from any 300-, 400-, or 500-level Anthropology courses.

4.10.3.2 Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)

The Major concentration is especially appropriate for students who aim to take courses across several sub-disciplinary or topical concentrations, and for whom specialization is premature. There are no prerequisites for admission to the Major Concentration Anthropology. Students are encouraged to take a course in quantitative methods (listed under the Honours program), but this course cannot count as part of this concentration.

Complementary Courses (36 credits)

200 Level

6 credits selected from 200-level courses in Anthropology.

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

Core (350 Level)

6 credits, from the following Core courses (350 level) :

(Note: These are restricted to students in any Anthropology program with U2 standing or above.)

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

Areas

6 credits selected from Area courses:

Ethnography

ANTH 304	(3)	Chinese Culture in Ethnography and Film
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 309	(3)	Prehistory of Northern Europe

ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 416	(3)	Environment/Development: Africa
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

Archaeology

ANTH 305	(3)	Arctic Prehistory
ANTH 307	(3)	Andean Prehistory
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 330	(3)	Traditional Whaling Societies
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 345	(3)	Prehistory of Africa

400 Level

6 credits, two 400-level Anthropology courses.

Undergraduate Level

12 credits of additional undergraduate-level Anthropology courses of which no more than 6 credits may be at the 200 level.

4.10.3.3 Bachelor of Arts (B.A.) - Joint Honours Component Anthropology (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students interested in Joint Honours should consult an adviser in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the Joint Honours components.

The Joint Honours thesis topic should be arranged by consultation with an adviser in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Complementary (36 credits)

Joint Honours students select their courses as specified below.

200 Level

A maximum of 12 credits of 200-level courses selected from:

ANTH 201	(3)	Prehistoric Archaeology
ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 203	(3)	Human Evolution

ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 207	(3)	Ethnography Through Film
ANTH 208	(3)	Evolutionary Anthropology
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

300 Level

A minimum of 6 credits of 300-level courses selected from:

ANTH 300	(3)	Comparative Anthropology
ANTH 301	(3)	Nomadic Pastoralists
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 303	(3)	Ethnographies of Post-socialism
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 308	(3)	Political Anthropology 01
ANTH 309	(3)	Prehistory of Northern Europe
ANTH 311	(3)	Primate Behaviour and Ecology
ANTH 312	(3)	Zooarchaeology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 317	(3)	Prehistory of North America
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 320	(3)	Social Evolution
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 335	(3)	Ancient Egyptian Civilization
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 339	(3)	Ecological Anthropology
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 344	(3)	Quantitative Approaches to Anthropology
ANTH 345	(3)	Prehistory of Africa
ANTH 380	(3)	Special Topic 1
ANTH 381	(3)	Special Topic 2
ANTH 382	(3)	Special Topic 3
ANTH 383	(3)	Special Topic 4

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

400/500 Level

A minimum of 6 credits of 400- or 500-level courses selected from:

ANTH 402	(3)	Topics in Ethnography 1
ANTH 403	(3)	Current Issues in Archaeology
ANTH 405	(3)	Topics in Ethnography 2
ANTH 407	(3)	Anthropology of the Body
ANTH 412	(3)	Topics: Anthropological Theory
ANTH 413	(3)	Gender in Archaeology
ANTH 416	(3)	Environment/Development: Africa
ANTH 419	(3)	Archaeology of Hunter-Gatherers
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 436	(3)	North American Native Peoples
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 440	(3)	Cognitive Anthropology
ANTH 443	(3)	Medical Anthropological Theory
ANTH 461	(3)	Research Techniques
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 511	(3)	Computational Approaches to Prehistory
ANTH 540	(3)	Topics in Anthropological Theory
ANTH 551	(3)	Advanced Topics: Archaeological Research
ANTH 555	(3)	Advanced Topics in Ethnology
ANTH 575	(3)	Concepts of Race

Joint Honours Project

The Joint Honours thesis or project topic should be determined in consultation with advisers from both the student's Joint Honours components. Normally, the project is 6 credits of coursework with 3 credits applying to each Joint Honours component. The 3-credit Anthropology course is selected from:

ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6

ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10

4.10.4 Art History and Communication Studies (ARTH and COMS)

The Department of Art History and Communication Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.6: Art History and Communication Studies \(ARTH and COMS\)](#)*.

4.10.4.1 Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)

This program may be expanded to the Major Concentration Art History.

Required Course (3 credits)

ARTH 305	(3)	Methods in Art History

Complementary Courses (15 credits)

Students select their complementary courses as follows:

3 credits in Art History at the 200 level.

12 credits in Art History at the 300 level or above, selected in consultation with the Departmental Adviser.

Note: Courses in studio practice cannot be counted towards the Minor concentration.

4.10.4.2 Bachelor of Arts (B.A.) - Minor Concentration Communication Studies (18 credits)

The Minor Concentration Communication Studies provides undergraduate students with a critical understanding of the role that communications media and communication technologies play in a society. It offers students intellectually challenging and innovative instruction in key traditions of Communications and Media Studies and new theoretical and methodological practices being developed in the field. The courses included in the program focus on issues of the relationship between communication, democracy and urban life, the social life of communication technologies, the historical development and transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

COMS 210	(3)	Introduction to Communication Studies

Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

COMS 200	(3)	History of Communication
COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2

COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication
COMS 425	(3)	Urban Culture & Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	History and Theory of Media
COMS 491	(3)	Media, Communication & Culture
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

4.10.4.3 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)

Required Course (3 credits)

ARTH 305	(3)	Methods in Art History

Complementary Courses (33 credits)

Students select their complementary courses as follows:

A maximum of 12 credits may be at the 200 level.

A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

The complementary courses must be selected from at least six of the eight Art History course fields.

Note: Courses in studio practice cannot be counted toward the Major concentration.

I. Theories and Methods

ARTH 310	(3)	Postcolonialism
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History

II. Ancient to Medieval

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 314	(3)	The Medieval City
ARTH 340	(3)	The Gothic Cathedral
ARTH 357	(3)	Early Chinese Art
ARTH 425	(3)	Arts of Medieval Spain

III. 1400 - 1700 (Early Modern)

ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 358	(3)	Later Chinese Art (960-1911)

ARTH 367	(3)	Italian Renaissance Art 2
ARTH 435	(3)	Early Modern Visual Culture
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04

IV. 1700 - 1945

ARTH 205	(3)	Introduction to Modern Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 323	(3)	Realism and Impressionism
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

V. Contemporary Art (1945 to Present)

ARTH 202	(3)	Introduction to Contemporary Art
ARTH 336	(3)	Art Now
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 356	(3)	Modern & Contemporary Chinese Art
ARTH 440	(3)	The Body and Visual Culture

VI. Sites of Visual Culture

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 325	(3)	Visual Culture Renaissance Venice

VII. Medium and Media

ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 360	(3)	Studies in the Photographic
ARTH 457	(3)	Brushwork in Chinese Painting

VIII. Selected Topics

ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 447	(3)	Independent Research Course
ARTH 490	(3)	Museum Internship

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

4.10.4.4 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.30 for admission into the program and the awarding of Honours.

Required Courses (9 credits)

ARTH 305	(3)	Methods in Art History
ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (27 credits)

Students select their complementary courses as follows:

A maximum of 9 credits may be at the 200 level.

A minimum of 3 credits must be at the 400 level or above.

27 credits should be selected from at least six of the eight Art History course fields.

I. Theories and Methods

ARTH 310	(3)	Postcolonialism
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History

II. Ancient to Medieval

ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 314	(3)	The Medieval City
ARTH 340	(3)	The Gothic Cathedral
ARTH 357	(3)	Early Chinese Art
ARTH 425	(3)	Arts of Medieval Spain

III. 1400 - 1700 (Early Modern)

ARTH 207	(3)	Introduction Early Modern Art 1400-1600
ARTH 223	(3)	Introduction Early Modern Art 1600-1700

ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 435	(3)	Early Modern Visual Culture
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04

IV. 1700 - 1945

ARTH 205	(3)	Introduction to Modern Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 323	(3)	Realism and Impressionism
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

V. Contemporary Art (1945 to Present)

ARTH 202	(3)	Introduction to Contemporary Art
ARTH 336	(3)	Art Now
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 356	(3)	Modern & Contemporary Chinese Art
ARTH 440	(3)	The Body and Visual Culture

VI. Sites of Visual Culture

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 325	(3)	Visual Culture Renaissance Venice

VII. Medium and Media

ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 360	(3)	Studies in the Photographic
ARTH 457	(3)	Brushwork in Chinese Painting

VIII. Selected Topics

ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 447	(3)	Independent Research Course

ARTH 490	(3)	Museum Internship

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

4.10.5 Atmospheric and Oceanic Sciences (ATOC)

The Department of Atmospheric and Oceanic Sciences, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#)*.

4.10.5.1 Bachelor of Science (B.Sc.) - Minor Atmospheric Science (18 credits)

This Minor may be taken in conjunction with any program in the Faculty of Science.

Required Courses (15 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection

Either of the following courses:

ATOC 219	(3)	Introduction to Atmospheric Chemistry
CHEM 219	(3)	Introduction to Atmospheric Chemistry

Complementary Course (3 credits)

3 credits from the following:

ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory

4.10.6 Biology (BIOL)

The Department of Biology, the discipline, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.5: Biology \(BIOL\)](#)*.

The minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools. Please see your departmental adviser for more information.

4.10.6.1 Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Cell/Molecular (19 credits)

The Minor Concentration Biology - Cell/Molecular, is restricted to students in the B.A. & Sc. It is a sequence of courses designed to yield a broad introduction to cell/molecular biology.

Advising Note: Students interested in a Biology minor concentration must choose either the Cell/Molecular option or the Organismal option, but may not take both. Students interested in a more in-depth program in Biology should consider the Major concentration.

Students may complete this program with a minimum of 18 credits or a maximum of 19 credits depending if they are exempt from taking CHEM 212 and their choice of complementary courses.

Required Courses* (13 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Courses (6 credits)

Any 6 credits of biology courses at the 300 level or higher approved by the Adviser.

4.10.6.2 Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Organismal (19 credits)

The Minor Concentration Biology - Organismal, is restricted to students in the B.A. & Sc. It is a sequence of courses designed to yield a broad introduction to organismal biology.

Advising Note: Students interested in a Biology minor concentration must choose either the Cell/Molecular option or the Organismal option, but may not take both. Students interested in a more in-depth program in Biology should consider the Major concentration.

Students may complete this program with a minimum of 18 credits or a maximum of 19 credits depending if they are exempt from taking CHEM 212 and their choice of complementary course.

Required Courses* (16 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Course (3 credits)

Any 3-credit biology course at the 300 level or higher approved by the adviser.

4.10.6.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses* (29 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by 3-credit courses from the Complementary Courses list. Regardless of the substitution, students must take at least 36 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Courses (7 credits)

at least 7 credits selected from:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 316	(3)	Eukaryotic Cell Biology 2
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading
BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with permission of the Adviser.

4.10.6.4 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Biology - Organismal (37 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Students may complete this program with a minimum of 36 credits or a maximum of 37 credits depending if they have already taken CHEM 212 or its equivalent, and on their choice of complementary courses.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses* (28 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by 3-credit courses from the Complementary Courses list. Regardless of the substitution, students must take at least 36 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Courses (9 credits)

9 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour

BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 352	(3)	Vertebrate Evolution
BIOL 373	(3)	Biometry
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanography
BIOL 463	(3)	Mammalian Evolution
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with permission of the Adviser.

4.10.7 Biomedical Sciences

4.10.7.1 Location

Program Adviser:

Ms. Sonia Viselli

Student Affairs Officer, Department of Physiology

McIntyre Medical Sciences Building, Room 1022

3655 Promenade Sir-William-Osler

Montreal, Quebec H3G 1Y6

Telephone: 514-398-3689

Email: sonia.viselli@mcgill.ca

4.10.7.2 About Biomedical Sciences

The Major Concentration in Biomedical Sciences has been retired. Students completing the program should refer to the Calendar (www.mcgill.ca/students/courses/calendars) at their time of entrance to the program for the program requirements and consult with their academic adviser.

4.10.8 Canadian Ethnic and Racial Studies

Canadian Ethnic and Racial Studies, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.7: Canadian Ethnic and Racial Studies](#)*.

4.10.8.1 Bachelor of Arts (B.A.) - Minor Concentration Canadian Ethnic and Racial Studies (18 credits)

Required Courses (9 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

Note: Of the 18 credits, selected with due regard to Faculty guidelines and course prerequisites, at least 9 must be above the 200 level.

Complementary Courses (9 credits)

9 credits, at least 6 of which must be at the 300 level or higher, selected from two of the following departmental lists:

Anthropology

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 320	(3)	Social Evolution
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 575	(3)	Concepts of Race

Canadian Studies

CANS 410	(3)	Canadian Studies Seminar 10

Geography

GEOG 301	(3)	Geography of Nunavut
GEOG 331	(3)	Urban Social Geography
GEOG 424	(3)	Europe: Places and Peoples
GEOG 502	(3)	Geography of Northern Development

History

HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 371	(3)	American Civil Rights 1877-1940
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 471D1	(3)	Canadian Immigration History
HIST 471D2	(3)	Canadian Immigration History

Philosophy

PHIL 327	(3)	Philosophy of Race

Political Science

POLI 226	(3)	La vie politique québécoise
POLI 321	(3)	Issues: Canadian Public Policy
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Aboriginal Politics in Canada
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 431	(3)	Nations and States/Developed World
POLI 435	(3)	Identity and Inequality
POLI 478	(3)	The Canadian Constitution

Sociology

SOCI 234	(3)	Population and Society
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups

Social Work

SWRK 400	(3)	Policy and Practice for Refugees

4.10.9 Canadian Studies (CANS)

Canadian Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.8: Canadian Studies \(CANS\)](#)*.

4.10.9.1 Bachelor of Arts (B.A.) - Minor Concentration Canadian Studies (18 credits)

The Minor program enables students to take courses about Canada outside the areas of their other major or minor concentrations.

This program may be expanded to the Major Concentration Canadian Studies.

Required Course (3 credits)

CANS 200	(3)	Introduction to the Study of Canada

Complementary Courses (15 credits)

15 credits selected as specified below.

NOTE: Students may not choose more than 3 credits in disciplines of their other major or minor concentrations.

200 Level

6 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

3 credits chosen from the complementary course list at the 300 level or higher. The courses chosen must have relevance to the program.

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535*	(3)	History of Architecture in Canada

* Limited enrolment: 2-3 spots for CANS students

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1

ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02

FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada

HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada

POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.9.2 Bachelor of Arts (B.A.) - Major Concentration Canadian Studies (36 credits)

Required Courses (6 credits)

CANS 200	(3)	Introduction to the Study of Canada
CANS 501	(3)	Interdisciplinarity & Canadian Studies

Normally students will complete CANS 200 and at least 6 credits of core courses in their U1 year, will complete all core courses and at least 3 credits of CANS courses by the end of their U2 year, and will complete CANS 501 in their U3 year.

Complementary Courses (30 credits)

30 credits selected as specified below.

Note: Students may not choose more than 9 credits in disciplines of their other major or minor concentrations.

200 Level

12 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6-12 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

6-12 credits chosen from courses in Canadian Studies offered by other departments from the list below with at least 6 credits at the 300 level or higher. The courses chosen must all have relevance to the program.

3 credits must be taken in the French language (including language courses). A maximum of 3 credits may be chosen from French as a Second Language (FRSL).

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535*	(3)	History of Architecture in Canada

* Limited enrolment: 2-3 spots for CANS students.

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise

FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity

HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada

POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.9.3 Bachelor of Arts (B.A.) - Joint Honours Component Canadian Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours components from any two Arts disciplines.

Students with a minimum program GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Joint Honours. Application deadlines are December 15 and May 15. Forms are available from the McGill Institute for the Study of Canada (MISC) Office.

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Required Courses (9 credits)

CANS 200	(3)	Introduction to the Study of Canada
CANS 492	(3)	Joint Honours Thesis
CANS 501	(3)	Interdisciplinarity & Canadian Studies

Complementary Courses (27 credits)

27 credits selected as specified below.

Note: Students may not choose more than 9 credits in disciplines of their other major or minor concentrations.

200 Level

12 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2

FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

Canadian Studies (CANS)

6-9 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

Canadian Studies (Other Departments)

6-9 credits chosen from courses in Canadian Studies offered by other departments from the list below with at least 6 credits at the 400 level or higher.

3 credits must be taken in the French language (including language courses). A maximum of 3 credits may be chosen from French as a Second Language (FRSL).

Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 305	(3)	Arctic Prehistory
ANTH 306	(3)	Native Peoples' History in Canada
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Architecture

ARCH 535	(3)	History of Architecture in Canada

* Limited enrolment 2-3 spots for CANS students.

Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

Biology

BIOL 240	(3)	Monteregian Flora

Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization

ECON 308	(3)	Governmental Policy Towards Business
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 480	(3)	Research Project 1
ECON 481	(3)	Research Project 2

English

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 345	(3)	Literature and Society
ENGL 393	(3)	Canadian Cinema
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

French as a Second Language

FRSL 101	(6)	Beginners French
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1

FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

French Language and Literature

FREN 245	(3)	Grammaire avancée
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

Geography

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography

GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

History

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303	(3)	History of Quebec
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 373	(3)	Canadian Labour History
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 416	(3)	British and French Identity
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 471D1	(3)	Canadian Immigration History
HIST 471D2	(3)	Canadian Immigration History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History

HIST 493D2	(3)	Topics: Canadian Social History
HIST 583	(3)	Conservatism in Canada
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar
HIST 596D1	(3)	Seminar: Canadian Health History
HIST 596D2	(3)	Seminar: Canadian Health History

Linguistics

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology

Music

MUHL 391	(3)	Canadian Music

Political Science

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

Québec, Études sur le

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

Religious Studies

RELG 420	(3)	Canadian Church History

Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 318	(3)	Television in Society
SOCI 327	(3)	Jews in North America
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.10 Catholic Studies (CATH)

Catholic Studies, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.9: Catholic Studies \(CATH\)](#)*.

4.10.10.1 Bachelor of Arts (B.A.) - Minor Concentration Catholic Studies (18 credits)

The Minor Concentration in Catholic Studies seeks to enrich the intellectual experience and academic options available to students, to broaden the course offerings across the disciplines, and to complement the visibility given to other programs such as Jewish Studies, Islamic Studies, and North American Studies. Core and complementary courses provide students an opportunity to deepen their understanding of Catholicism in an increasingly pluralistic world. The program offers a systematic and critical exploration of the diverse ways in which the Catholic tradition informs culture, institutions, and identity.

Required Course (3 credits)

CATH 200	(3)	Introduction to Catholicism

Complementary Courses (15 credits)

15 credits selected with the following specifications:

9 credits from Catholic Studies courses with the subject code CATH

3 credits from Group I: Catholicism and the Arts course lists

3 credits from Group II: Catholic Social and Intellectual Traditions course lists

Catholic Studies (CATH)

9 credits chosen from the list of Catholic Studies courses below.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Moral Culture
CATH 320	(3)	Scripture and Catholicism
CATH 325	(3)	The Religious Sense
CATH 340	(3)	Catholic Social Thought
CATH 370	(3)	Topics in Catholic Studies
CATH 460	(3)	Catholic Studies Seminar

Group I: Catholicism and the Arts

3 credits in Catholicism and the Arts selected from the lists below.

Art History and Communication Studies

ARTH 340	(3)	The Gothic Cathedral

Education

EDER 209	(3)	Search for Authenticity

EDER 394	(3)	Philosophy of God

English

ENGL 357	(3)	Chaucer - Canterbury Tales

ENGL 424	(3)	Irish Literature

French Language and Literature

FREN 252	(3)	Littérature québécoise

FREN 329	(3)	Civilisation québécoise

FREN 455	(3)	La littérature médiévale 1

Italian Studies

ITAL 270	(3)	Manzoni: Novel and Nationhood

ITAL 355	(3)	Dante and the Middle Ages

ITAL 410	(3)	Italian Modernism

Religious Studies

RELG 203	(3)	Bible and Western Culture

RELG 210	(3)	Jesus of Nazareth

RELG 311	(3)	New Testament Studies 1

RELG 312	(3)	New Testament Studies 2

RELG 341	(3)	Introduction: Philosophy of Religion

RELG 377	(3)	Religious Controversies

Group II: Catholic Social and Intellectual Traditions

3 credits in Catholic Social and Intellectual Traditions selected from the lists below.

East Asian Studies

EAST 385	(3)	Society and Community in Korea

Education

EDER 394	(3)	Philosophy of God

EDER 395	(3)	Moral Values and Human Action

EDER 494	(3)	Ethics in Practice

History

HIST 319	(3)	The Scientific Revolution
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 336	(3)	France, 1789 to 1914
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 405	(3)	European Cultural History 1

Philosophy

PHIL 334	(3)	Ethical Theory
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 474	(3)	Phenomenology

Political Science

POLI 226	(3)	La vie politique québécoise
POLI 319	(3)	Politics of Latin America
POLI 321	(3)	Issues: Canadian Public Policy
POLI 414	(3)	Society and Politics in Italy

Religious Studies

RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 340	(3)	Religion and the Sciences
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

4.10.11 Chemistry (CHEM)

The Department of Chemistry, the discipline, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.7: Chemistry \(CHEM\)](#)*.

The Major Concentration Chemistry is not certified by the *Ordre des Chimistes du Québec*. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry. The minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools (see [section 4.5.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Freshman Program \(30 credits\)](#)).

4.10.11.1 Bachelor of Science (B.Sc.) - Minor Chemistry (18 credits)

Required Courses (18 credits)

* Denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

4.10.11.2 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major Concentration Chemistry, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses* (18 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Complementary Courses (18 credits)

18 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

4.10.12 History and Classical Studies – Classics (CLAS)

Classical Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.10: Classics \(CLAS\)](#)*.

4.10.12.1 Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)

Two separate streams allow students to put emphasis either on the ancient languages or on the culture of the ancient Mediterranean.

This program may be expanded to the Major Concentration Classics.

Complementary Courses (18 credits)

Students select one of the following two streams of study:

- Classical Language Stream
- Classical Studies Stream

Classical Language Stream

18 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

12 credits minimum in Classical Languages

a minimum of 3 credits at the 300 level or higher of CLAS courses;

a maximum of 12 credits of 200-level courses.

Classical Studies Stream

18 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

6 credits minimum in Classical Languages

a minimum of 6 credits in one of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

a minimum of 3 credits of 300-level or higher CLAS courses

a maximum of 12 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek

CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History

CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World

HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society

CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

4.10.12.2 Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)

Two separate streams allow students to put emphasis either on the ancient languages or on the culture of the ancient Mediterranean.

Complementary Courses (36 credits)

Students select one of the following two streams of study:

- Classical Language Stream
- Classical Studies Stream

Classical Language Stream

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

18 credits minimum in Classical Languages

a minimum of 6 credits in each of two of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

a maximum of 12 credits of 200-level courses.

Classical Studies Stream

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

9 credits minimum in Classical Languages

a minimum of 12 credits in one of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

a minimum of 3 credits in at least three different areas

a minimum of 3 credits of 300-level or higher CLAS courses

a maximum of 12 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians

CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer

CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition
CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents

CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth

RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

4.10.12.3 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable). For Classics, see the Undergraduate Adviser.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Complementary Courses (36 credits)

36 credits taken from the five thematic areas of Classics: Classical Languages, Classical Literature, Ancient History, Philosophy and Religion, Modern Greek with the specifications described below. For course choices, see the course lists provided for each area.

24 credits minimum in Classical Languages with a minimum of 3 credits at the 400 level.

A minimum of 6 credits in each of two of the following areas:

- Classical Literature
- Ancient History
- Philosophy and Religion
- Modern Greek

A maximum of 15 credits of 200-level courses.

Note: The same course may not count toward more than one thematic area requirement.

Classical Languages - Latin

CLAS 210	(6)	Introductory Latin 1
CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1

CLAS 310	(3)	Reading Latin
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts

Classical Languages - Ancient Greek

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 320	(3)	Reading Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Classics (CLAS)

CLAS 200	(3)	Introduction to Ancient Greek Literature
CLAS 203	(3)	Greek Mythology
CLAS 208	(3)	Introduction to Roman Literature
CLAS 300	(3)	Greek Drama and the Theatre
CLAS 309	(3)	The Greek and Roman Novel
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 320	(3)	Reading Ancient Greek

CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
CLAS 370	(3)	Gender in the Ancient World
CLAS 380	(3)	Ancient Greek Religion
CLAS 411	(3)	Advanced Latin: Epic
CLAS 412	(3)	Advanced Latin: Lyric
CLAS 413	(3)	Advanced Latin: Satire
CLAS 414	(3)	Advanced Latin: History
CLAS 415	(3)	Advanced Latin: Oratory
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 418	(3)	Advanced Latin: Special Topics
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 422	(3)	Advanced Ancient Greek: Lyric
CLAS 423	(3)	Advanced Ancient Greek: Drama
CLAS 424	(3)	Advanced Greek: History
CLAS 426	(3)	Advanced Greek: Philosophy
CLAS 428	(3)	Advanced Ancient Greek: Special Topics
CLAS 490	(3)	Greek and Roman Historiography
CLAS 515D1	(3)	Latin Authors and Texts
CLAS 515D2	(3)	Latin Authors and Texts
CLAS 525D1	(3)	Ancient Greek Authors & Texts
CLAS 525D2	(3)	Ancient Greek Authors & Texts

Classical Literature - Other Departments

Classical Literature courses are also taught under the subject codes of English (ENGL), French (FREN), and Philosophy (PHIL).

ENGL 347	(3)	Great Writings of Europe 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Ancient History - All Departments

Ancient History courses are taught under several subject codes including: Anthropology (ANTH), Art History (ARTH), Classics (CLAS), History (HIST), and Religious Studies (RELG).

ANTH 335	(3)	Ancient Egyptian Civilization
ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 203	(3)	Greek Mythology
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 404	(3)	Classical Tradition

CLAS 414	(3)	Advanced Latin: History
CLAS 424	(3)	Advanced Greek: History
CLAS 427	(3)	Advanced Ancient Greek: Documents
CLAS 490	(3)	Greek and Roman Historiography
HIST 205	(3)	Ancient Mediterranean History
HIST 231	(3)	Archaeology of the Ancient World
HIST 305	(3)	Ancient Mediterranean Warfare
HIST 323	(3)	History and Sexuality 1
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 391	(3)	Roman History: Republic
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
RELG 326	(3)	Ancient Christian Church AD54 - AD604

Philosophy and Religion

Philosophy and Religion courses are taught under several subject codes including: Classics (CLAS), Philosophy (PHIL), Political Science (POLI), and Religious Studies (RELG).

CLAS 203	(3)	Greek Mythology
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 380	(3)	Ancient Greek Religion
CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 421	(3)	Advanced Ancient Greek: Epic
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 550	(3)	Seminar: Ancient Philosophy 1
PHIL 551	(3)	Seminar: Ancient Philosophy 2
POLI 333	(3)	Western Political Theory 1

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 502	(3)	Greco-Roman Judaism
RELG 583	(3)	Hellenistic Religious Texts

Modern Greek

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek Language
CLAS 332	(3)	The Modern Greek Novel
CLAS 333	(3)	Modern Greek Poetry
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 404	(3)	Classical Tradition

Classics Topics Courses

The following Classics topics courses change topic each time they are taught. Consult the course instructor and Classics Adviser to verify toward which thematic area(s) the course may count for the term in which it is taken.

CLAS 347	(3)	Special Topics in Classics
CLAS 348	(3)	Greek and Roman Topography

4.10.13 Cognitive Science

4.10.13.1 Location

Ian Gold
 Director, Program in Cognitive Science
 3465 Peel Street, Room 401
 Montreal, Quebec H3A 1W7

Interdisciplinary Programs Adviser
 Wendy Brett, Adviser
 Telephone: 514-398-7330
 Email: wendy.brett@mcgill.ca

Website: www.mcgill.ca/cogsci

4.10.13.2 About Cognitive Science

Cognitive Science is the multidisciplinary study of cognition in humans and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices that constructively extend human abilities.

An Interfaculty Program in Cognitive Science (54 credits) is offered by the following departments:

Computer Science (COMP) (Science)
 Linguistics (LING) (Arts)
 Philosophy (PHIL) (Arts)

Psychology (PSYC) (Science)

Cognitive Science Committee Members:

Brendan Gillon (*Linguistics*)

Kristine Onishi (*Psychology*)

Joelle Pineau (*Computer Science*)

David Ragsdale (*Neuroscience*)

Dirk Schlimm (*Philosophy*)



Please note: New students are required to attend an information session held at the end of August. Please consult the cognitive science website in early August for the date and location.

4.10.13.3 Bachelor of Arts and Science (B.A. & Sc.) - Honours Cognitive Science (60 credits)

The Honours Cognitive Science, which is restricted to students in the B.A. & Sc., is an extension of the Interfaculty program and offers students an opportunity to undertake a research project in close association with professors in their main Arts and Science focus areas. Prior to selecting the Honours program, students should meet with the Interdisciplinary Program Adviser and review the B.A. & Sc. academic requirements for Honours and First Class Honours, which can also be found under "University Regulations and Resources," "Graduation," and "Graduation Honours."

To receive an Honours degree, students are required to achieve a minimum overall program GPA of 3.3 at graduation, and attain a grade of B+ (3.3) or better in COGS 444. Students must complete both the 60-credit Honours program and an approved minor concentration or a minor in the Faculties of Arts or of Science.

Note: B.A. & Sc. students who take interfaculty programs, including the Honours in Cognitive Science, must take at least 21 credits in Arts and 21 credits in Science across their interfaculty program and their minor or minor concentration.

Required Course (6 credits)

COGS 444	(6)	Honours Research

Complementary Courses: (54 credits)

3 core credits from the following logic courses:

COMP 230	(3)	Logic and Computability
MATH 318	(3)	Mathematical Logic
PHIL 210	(3)	Introduction to Deductive Logic 1

3 credits from the following capstone courses:

COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424	(3)	Artificial Intelligence
LING 419	(3)	Linguistic Theory and its Foundations
LING 565	(3)	Pragmatics
PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 532	(3)	Cognitive Science
PSYC 538	(3)	Categorization, Communication & Consciousness

48 credits are selected as follows:

18 credits from program offerings in one of the following five units: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from program offerings in one of the four remaining units.

18 credits chosen from program offerings in Computer Science, Linguistics, Neuroscience, Philosophy, Psychology, and/or Research Courses.

Of the 48 Complementary Course credits, 12 credits taken must be at the 400 level or higher.

Computer Science

COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 280	(3)	History and Philosophy of Computing
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design
COMP 400	(3)	Honours Project in Computer Science
COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation
COMP 558	(3)	Fundamentals of Computer Vision
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Linguistics

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 390	(3)	Neuroscience of Language
LING 417	(3)	Topics at the Interfaces 1
LING 418	(3)	Topics at the Interfaces 2
LING 419	(3)	Linguistic Theory and its Foundations
LING 440	(3)	Morphology
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 461	(3)	Formal Methods in Linguistics
LING 530	(3)	Acoustic Phonetics

LING 531	(3)	Phonology 2
LING 555	(3)	Language Acquisition 2
LING 565	(3)	Pragmatics
LING 571	(3)	Syntax 2
LING 590	(3)	Language Acquisition and Breakdown

Philosophy

NSCI 300	(3)	Neuroethics
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 360	(3)	17th Century Philosophy
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy
PHIL 474	(3)	Phenomenology
PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics

Psychology

ANTH 440	(3)	Cognitive Anthropology
MUMT 250	(3)	Music Perception and Cognition
NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 304	(3)	Child Development
PSYC 305	(3)	Statistics for Experimental Design
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 316	(3)	Psychology of Deafness
PSYC 318	(3)	Behavioural Neuroscience 2

PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 532	(3)	Cognitive Science
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics

Neuroscience

* Students select either PHGY 311 or BIOL 306, but not both.

** Students select either BIOL 514 or PSYC 514, but not both.

*** Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306*	(3)	Neural Basis of Behaviour
BIOL 507	(3)	Animal Communication
BIOL 514**	(3)	Neurobiology Learning and Memory
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
NEUR 310	(3)	Cellular Neurobiology
NSCI 200***	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
PHGY 209***	(3)	Mammalian Physiology 1
PHGY 311*	(3)	Channels, Synapses & Hormones
PHGY 314	(3)	Integrative Neuroscience
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2

PSYC 342	(3)	Hormones and Behaviour
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514**	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 532	(3)	Cognitive Science
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 502	(3)	Brain Evolution and Psychiatry
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401	(6)	Research Cognitive Science 1

4.10.13.4 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Cognitive Science (54 credits)

The Interfaculty Program Cognitive Science, which is restricted to students in the B.A. & Sc., is a planned sequence of courses designed to permit students to focus on at least two relevant areas of study.

Note: B.A. & Sc. students who take interfaculty programs must take at least 21 credits in Arts and 21 credits in Science across their interfaculty program and their minor or minor concentration.

3 core credits from the following logic courses:

COMP 230	(3)	Logic and Computability
MATH 318	(3)	Mathematical Logic
PHIL 210	(3)	Introduction to Deductive Logic 1

3 credits from the following capstone courses:

COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424	(3)	Artificial Intelligence
LING 419	(3)	Linguistic Theory and its Foundations
LING 565	(3)	Pragmatics
PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 532	(3)	Cognitive Science
PSYC 538	(3)	Categorization, Communication & Consciousness

48 credits are selected as follows

18 credits from program offerings in one of the following five units: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from program offerings in one of the four remaining units.

18 credits chosen from program offerings across all five units.

Of the 48 Complementary Course credits, 12 credits taken must be at the 400 level or higher.

Computer Science

COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 280	(3)	History and Philosophy of Computing
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design
COMP 400	(3)	Honours Project in Computer Science
COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation
COMP 558	(3)	Fundamentals of Computer Vision
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Linguistics

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 390	(3)	Neuroscience of Language
LING 417	(3)	Topics at the Interfaces 1
LING 418	(3)	Topics at the Interfaces 2
LING 419	(3)	Linguistic Theory and its Foundations
LING 440	(3)	Morphology
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 461	(3)	Formal Methods in Linguistics

LING 530	(3)	Acoustic Phonetics
LING 531	(3)	Phonology 2
LING 555	(3)	Language Acquisition 2
LING 565	(3)	Pragmatics
LING 571	(3)	Syntax 2
LING 590	(3)	Language Acquisition and Breakdown

Philosophy

NSCI 300	(3)	Neuroethics
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 360	(3)	17th Century Philosophy
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy
PHIL 474	(3)	Phenomenology
PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics

Psychology

ANTH 440	(3)	Cognitive Anthropology
MUMT 250	(3)	Music Perception and Cognition
NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 304	(3)	Child Development
PSYC 305	(3)	Statistics for Experimental Design
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 316	(3)	Psychology of Deafness

PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 532	(3)	Cognitive Science
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics

Neuroscience

* Students select either PHGY 311 or BIOL 306, but not both.

** Students select either BIOL 514 or PSYC 514, but not both.

*** Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306*	(3)	Neural Basis of Behaviour
BIOL 507	(3)	Animal Communication
BIOL 514**	(3)	Neurobiology Learning and Memory
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
NEUR 310	(3)	Cellular Neurobiology
NSCI 200***	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
PHGY 209***	(3)	Mammalian Physiology 1
PHGY 311*	(3)	Channels, Synapses & Hormones
PHGY 314	(3)	Integrative Neuroscience
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour

PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514**	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 532	(3)	Cognitive Science
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 502	(3)	Brain Evolution and Psychiatry
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401	(6)	Research Cognitive Science 1

4.10.14 Computer Science (COMP)

The School of Computer Science and the discipline are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.9: Computer Science \(COMP\)](#)*.

The following are considered Science programs in the B.A. & Sc.:

- Minor Concentration in Computer Science
- Major Concentration in Computer Science
- Major Concentration in Software Engineering

4.10.14.1 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

Notes for the list below:

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364, COMP 396, and COMP 400.

COMP 230	(3)	Logic and Computability
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

4.10.14.2 Bachelor of Arts (B.A.) - Major Concentration Computer Science (36 credits)

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Required Courses (21 credits)

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Notes for the list below:

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and should replace it with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

Complementary Courses (15 credits)

15 credits selected as follows:

3-6 credits from:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2

At least 3 credits from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

At least 3 credits from:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development

The remaining credits are selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396, COMP 400).

4.10.14.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Software Engineering (37 credits)

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering."

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 421	(3)	Database Systems
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (7 credits)

6-7 credits from:

COMP 322	(1)	Introduction to C++
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development

or any computer science course at the 300 level or above, excluding COMP 364, COMP 396, and COMP 400.

4.10.15 Earth and Planetary Sciences (EPSC)

The Department of Earth and Planetary Sciences, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.10: Earth and Planetary Sciences \(EPSC\)](#)*.

4.10.15.1 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy

EPSC 212 (3) Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201 (3) Understanding Planet Earth

EPSC 233 (3) Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 203 (3) Structural Geology

EPSC 231 (3) Field School 1

EPSC 334 (3) Invertebrate Paleontology

EPSC 350 (3) Tectonics

EPSC 452 (3) Mineral Deposits

EPSC 542 (3) Chemical Oceanography

EPSC 561 (3) Ore-forming Processes 1

4.10.16 Earth, Atmosphere and Ocean Sciences

The following departments jointly offer a B.A. & Sc. program:

Atmospheric and Oceanic Sciences (ATOC)

Earth and Planetary Sciences (EPSC)

The departments, the disciplines, and specific courses are described in their respective sections under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science*.

4.10.16.1 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Earth, Atmosphere and Ocean Sciences (36 credits)

The Major Concentration Earth, Atmosphere and Ocean Sciences, which is restricted to students in the B.A. & Sc., is a sequence of courses designed to permit a degree of specialization in these disciplines.

Required Courses (18 credits)

ATOC 214 (3) Introduction: Physics of the Atmosphere

ATOC 215 (3) Oceans, Weather and Climate

ATOC 309 (3) Weather Radars and Satellites

ATOC 315 (3) Thermodynamics and Convection

EPSC 210 (3) Introductory Mineralogy

EPSC 212 (3) Introductory Petrology

Complementary Courses (18 credits)

A minimum of 18 credits, at least 6 of which must be at the 300 level or higher, distributed as follows:

3 credits from:

EPSC 201 (3) Understanding Planet Earth

EPSC 233 (3) Earth and Life History

9 credits from:

EPSC 203	(3)	Structural Geology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 320	(3)	Elementary Earth Physics
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 425	(3)	Sediments to Sequences
EPSC 455	(3)	Sedimentary Geology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology

6 credits from:

ATOC 219	(3)	Introduction to Atmospheric Chemistry
ATOC 412	(3)	Atmospheric Dynamics
GEOG 308	(3)	Principles of Remote Sensing

4.10.17 East Asian Studies (EAST)

East Asian Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.13: East Asian Studies \(EAST\)](#)*.

4.10.17.1 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 214	(3)	Japanese Animation & New Media
EAST 215	(3)	Introduction to East Asian Art
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1

EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change

ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 445	(3)	Late Imperial China
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 581	(3)	The Art of War in China

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management

Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia

Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions

RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhist Philosophy

4.10.17.2 Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits, one of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese

EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2

East Asian Studies (EAST)

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance

EAST 466	(3)	Feminism and Japan
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

4.10.17.3 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

4.10.17.4 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

36 credits selected as specified below.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 214	(3)	Japanese Animation & New Media
EAST 215	(3)	Introduction to East Asian Art
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2

EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

Geography (GEOG)

GEOG 408	(3)	Geography of Development

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 445	(3)	Late Imperial China
HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History
HIST 581	(3)	The Art of War in China

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management

Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia

Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhist Philosophy

4.10.17.5 Bachelor of Arts (B.A.) - Joint Honours Component East Asian Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

Required Course (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Complementary Courses (33 credits)

33 credits selected as specified below.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 520	(3)	Fourth Level Korean 1
EAST 521	(3)	Fourth Level Korean 2
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 537D1	(3)	China Today Through Translation
EAST 537D2	(3)	China Today Through Translation
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature

EAST 353	(3)	Approaches to Chinese Cinema
EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 356	(3)	Modern & Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Society and Community in Korea
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 456	(3)	Chinese Drama and Popular Culture
EAST 457	(3)	Brushwork in Chinese Painting
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 490	(3)	Confucius and the Classics
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 552	(3)	The Yijing (Book of Changes)
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Japan
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

4.10.18 Economics (ECON)

The Department of Economics, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.14: Economics \(ECON\)](#)*.

4.10.18.1 Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)

The Minor Concentration Economics is offered in four streams:

Stream I - Expandable

Stream II - Non-expandable

Stream III - for Management students

Stream IV - Combinable, for students already registered in the Major Concentration Economics

In general, 200-level courses have no prerequisites, ECON 208 and ECON 209 (substitutable by the combination of MGCR 293 and ECON 295 or the more advanced course ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2) are prerequisites for 300-level courses, ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2 are prerequisites for 400-level courses.

Stream I - Required Courses (6 credits)

This stream is for students whose primary interest is in a field other than Economics, but who wish to keep the option of upgrading to the Major concentration in the future.

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory

Stream I - Complementary Courses (12 credits)

12 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Stream II - Required Courses (6 credits)

Note: Stream II of the Minor Concentration Economics may not be expanded to the Major Concentration Economics.

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications

Stream II - Complementary Courses (12 credits)

12 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Stream III - Complementary Courses (18 credits)

Stream III is available only to Management students.

18 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 300- or 400-level courses.

Note: ECON 295 will not count as part of this Minor concentration.

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at:
<http://www.mcgill.ca/economics/undergraduates/courses/>.

Stream IV - Complementary Courses (18 credits)

Students who are registered in the Major Concentration Economics and a minor concentration in another unit may complete as a second minor concentration the Minor Concentration Economics. Please see the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for detailed information on the multi-track system options.

18 credits of courses with the Economics subject code ECON with numbers above 209. At least 6 of these credits must be in 400- or 500-level courses and no more than 3 credits may be at the 200 level.

4.10.18.2 Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)

The Major Concentration Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department.

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any major adviser; consult the Departmental office for a list of advisers.

Students who are registering for the first time with the Department should attend the orientation meeting (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration Economics students entering University at the U1 year in September should directly proceed to ECON 230D1/ECON 230D2 without taking ECON 208 and ECON 209.

Students who wish to switch from the Major concentration to Honours Economics must complete all the requirements of the Honours program.

Required Courses (18 credits)

Please note that all students taking the Major Concentration Economics (whether in the B.A. or B.Com.) must take 6 credits of approved statistics courses. Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

Mathematics: Mastery of high school mathematics is required for all economics courses. For majors and minors in Economics, it is recommended, but not required, that students acquire mastery of elementary Calculus and matrix algebra in their undergraduate years. (See courses listed under the Honours program.)

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory

Complementary Courses (18 credits)

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

Prerequisites: In general, 200-level courses have no prerequisites; 300-level courses have ECON 230D1/ECON 230D2 (or the lower level courses ECON 208 and ECON 209, or the combination of MGCR 293 and ECON 295) as prerequisites; and 400-level courses have ECON 230D1/ECON 230D2 as a prerequisite.

4.10.18.3 Bachelor of Arts (B.A.) - Joint Honours Component Economics (30 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

All Joint Honours students should consult the handout describing the Economics Honours and Joint Honours programs available in the Economics Department Office, Leacock Building Room 443, and at <http://www.mcgill.ca/economics/undergraduates/honours>.

According to Faculty of Arts regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Math Prerequisites

All Joint Honours students must complete three Math prerequisites. A sequence of two calculus courses with a grade of C or higher should be completed prior to entering the Joint Honours program. Prior to their U2 year, students should complete MATH 133. These requirements can be met by having passed equivalent courses at CEGEP or elsewhere. Joint Honours students are encouraged, but not required, to take MATH 222 Calculus 3.

* Note: Students without high school Calculus take MATH 139; those with high school Calculus take MATH 140.

MATH 133	(3)	Linear Algebra and Geometry
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours

ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Course (3 credits)

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

4.10.19 English (ENGL)

The Department of English, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.17: English \(ENGL\)](#)*.

4.10.19.1 Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 275	(3)	Introduction to Cultural Studies

Complementary Courses (15 credits)

15 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text
ENGL 497	(3)	Seminar in Cultural Studies

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

4.10.19.2 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230	(3)	Introduction to Theatre Studies

Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

ENGL 407	(3)	The 20th Century
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Option's Offerings - Additional Courses

6 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 369	(3)	Creative Writing: Playwriting
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama

ENGL 434 (3) Independent Theatre Project

Drama and Theatre - Courses of Interest - Other Departments

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in 2013-2014.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance
HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

4.10.19.3 Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Author

3 credits on a Major Author:

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

Pre-1800

3 credits from a list of pre-1800 literature courses:

ENGL 215	(3)	Introduction to Shakespeare
ENGL 300	(3)	The Seventeenth Century
ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

ENGL 199	(3)	FYS: Literature and Democracy
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature

ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

4.10.19.4 Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Canadian Component

3 credits from a list of courses in Cultural Studies with a Canadian component:

ENGL 393	(3)	Canadian Cinema
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2

ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component.

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

9 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Major Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser who is approached by a student with strong academic grounds for including a third such course may grant permission (to a maximum of 9 extra-departmental credits) and must so indicate in advance by signing the departmental program audit sheet.

4.10.19.5 Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)

The Drama and Theatre option tries to place its subject in as broad a social and philosophical context as possible. The Drama and Theatre program is not designed to provide professional theatre training. The aim is rather to encourage students to explore the subject as a liberal arts discipline.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

9 credits to be taken in the first two terms of the program

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 269	(3)	Introduction to Performance
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (27 credits)

27 credits selected as described below.

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theory or Criticism Courses

3 credits from the list of Theory or Criticism courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Theatre History Courses

3 credits from the list of Theatre History courses:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Option's Offerings - Additional Courses

12 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 369	(3)	Creative Writing: Playwriting
ENGL 375	(3)	Interpretation Dramatic Text
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 434	(3)	Independent Theatre Project

Drama and Theatre - Courses of Interest - Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser, approached by a student with strong academic grounds for including a third such course, may grant permission, to a maximum of 9 extra-departmental credits, and must so indicate in advance by signing the departmental program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in 2013-2014.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below, should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance
HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

4.10.19.6 Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text

ENGL 352	(3)	Theories of Difference

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance:

Backgrounds of English Literature

ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 349	(3)	English Literature and Folklore 1
ENGL 452	(3)	Studies in Old English

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English

Renaissance

ENGL 215	(3)	Introduction to Shakespeare
ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2

18 Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 403	(3)	Studies in the 18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2
ENGL 405	(3)	Studies in 19th Century Literature 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2

19th Century American

ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

Modernist

ENGL 335	(3)	The 20th Century Novel 1
ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer

Post-modernist

ENGL 320	(3)	Postcolonial Literature
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 443	(3)	Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 323	(3)	20th Century American Poetry
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 443	(3)	Contemporary Women's Fiction

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories above and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count toward the Major Concentration in English - Literature.

ENGL 199	(3)	FYS: Literature and Democracy
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author

ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

4.10.19.7 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (9 credits)

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 276	(3)	Methods of Cultural Analysis
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1

ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Departmental Offerings

12 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.19.8 Bachelor of Arts (B.A.) - Joint Honours Component English - Drama and Theatre (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (9 credits)

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 269	(3)	Introduction to Performance
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (27 credits)

27 credits selected as described below. In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Theory Courses

3 credits from a list of theory courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Dramatic Literature

3 credits in Dramatic Literature:

For a list of courses for the 2013-2014 academic year, please consult the Department of English web page <http://www.mcgill.ca/english/>.

History of the Theatre

3 credits in History of the Theatre:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900
ENGL 565	(3)	Drama Workshop
ENGL 566	(3)	Special Studies in Drama 1

Departmental Offerings

12 credits

4.10.19.9 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (6 credits)

ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism

Complementary Courses (30 credits)

30 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6-credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of this publication. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Pre-1800

9 credits from a list of Pre-1800 literature courses:

ENGL 300	(3)	The Seventeenth Century
ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 315	(3)	Shakespeare

ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English
ENGL 501	(3)	16th Century
ENGL 502	(3)	17th Century
ENGL 503	(3)	18th Century
ENGL 516	(3)	Shakespeare
ENGL 553	(3)	Old English Literature

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

500 Level

3 credits of English (ENGL) courses at the 500 level.

Department Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.20 Environment

The McGill School of Environment is described in detail under *Programs, Courses and University Regulations > Faculties & Schools > [McGill School of Environment](#)*.

4.10.20.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Minor Environment (18 credits)

This 18-credit Minor is intended for Faculty of Agricultural and Environmental Science students and Faculty of Science students, but is open to students from other faculties as well, except Arts and Law.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. Only courses at the 200 level and above will be approved.

For information about the Minor in Environment, contact:

Ms. Kathy Roulet, MSE Program Adviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses are selected as follows:

12 credits of MSE core courses:

Location Note: MSE core courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course list may be included in the Minor with the permission of the MSE Program Adviser.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy

ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society

SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

* Note: you may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take BREE 217 or GEOG 322, but not both; you may take ENVB 430 or GEOG 201, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305*	(3)	Population & Community Ecology

ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

4.10.20.2 Bachelor of Arts and Science (B.A. & Sc.) - Honours Environment (60 credits)

This program is open only to students in the B.A. & Sc. Interfaculty Program Environment.

To be eligible for Honours, students must satisfy the requirements set by their B.A. & Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. B.A. & Sc. students must complete at least 30 credits in the Faculty of Arts and at least 30 in the Faculty of Science as part of their Honours program and their Minor concentration or Minor program. For a list of available Minor concentrations or Minor programs, see "Overview of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the coursework (54 credits) for the Interfaculty Program in Environment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours Required Courses (6 credits)

Note: You take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

4.10.20.3 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Environment (54 credits)

The growth of technology, globalization of economies, and rapid increases in population and per capita consumption have all had dramatic environmental impacts. The Interfaculty Program Environment for the Bachelor of Arts and Science is designed to provide students with a broad "Liberal Arts/Science" training. In combination with careful mentoring, this program offers a great degree of flexibility, allowing students to develop the skills and knowledge base required to face the myriad of environmental problems that currently need to be addressed.

Program Requirements

1. Students are required to take a maximum of 21 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses.
2. Students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their interfaculty program and their minor or minor concentration. ENVR courses are considered courses in both Arts and Science, and so the credits are split between the two faculties for the purpose of this regulation.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught on both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

3 credits - Senior Research Project

3 credits - Statistics

30 credits - chosen from amongst 12 Areas of focus

Senior Research Project

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Statistics:

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Areas:

30 credits from at least three of the following Areas. At least 6 credits must be at the 400 level or higher, selected either from these lists or in consultation with the Program Adviser.

Area 1: Population, Community, and Ecosystem Ecology

* Note: You may take BIOL 540 or ENVR 540, but not both; you may take BIOL 308 or ENVB 305, but not both.

BIOL 308*	(3)	Ecological Dynamics
BIOL 432	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 540*	(3)	Ecology of Species Invasions
ENVB 305*	(3)	Population & Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 350	(3)	Ecological Biogeography
PLNT 460	(3)	Plant Ecology

Area 2: Biodiversity and Conservation

BIOL 305	(3)	Animal Diversity
BIOL 355	(3)	Trees: Ecology & Evolution
BIOL 427	(3)	Herpetology
BIOL 465	(3)	Conservation Biology
ENTO 440	(3)	Insect Diversity
MICR 331	(3)	Microbial Ecology

PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

Area 3: Field Studies in Ecology and Conservation

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

Area 4: Hydrology and Water Resources

* Note: You may take only one of: GEOG 322, BREE 217, or CIVE 323.

BREE 217*	(3)	Hydrology and Water Resources
CIVE 323*	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 540	(3)	Socio-Cultural Issues in Water

Area 5: Human Health

* Note: You may take ANSC 330 or NUTR 307, but not both.

ANSC 330*	(3)	Fundamentals of Nutrition
NUTR 307*	(3)	Human Nutrition
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 303	(3)	Principles of Toxicology

Area 6: Earth and Soil Sciences

ATOC 215	(3)	Oceans, Weather and Climate
EPSC 201	(3)	Understanding Planet Earth
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
SOIL 326	(3)	Soils in a Changing Environment

Area 7: Economics

* Note: You may take AGECE 200 or ECON 208, but not both.

AGEC 200*	(3)	Principles of Microeconomics
AGEC 333	(3)	Resource Economics
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
GEOG 216	(3)	Geography of the World Economy

Area 8: Development and Underdevelopment

ANTH 212	(3)	Anthropology of Development
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
POLI 227	(3)	Developing Areas/Introduction
POLI 445	(3)	International Political Economy: Monetary Relations

Area 9: Cultures and People

ANTH 206	(3)	Environment and Culture
ANTH 339	(3)	Ecological Anthropology
GEOG 210	(3)	Global Places and Peoples

Area 10: Human Ecology and Health

ANTH 227	(3)	Medical Anthropology
GEOG 300	(3)	Human Ecology in Geography
GEOG 303	(3)	Health Geography
PHIL 343	(3)	Biomedical Ethics
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness

Area 11: Spirituality, Philosophy, and Thought

EDER 461	(3)	Society and Change
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 237	(3)	Contemporary Moral Issues
PHIL 341	(3)	Philosophy of Science 1
PHIL 348	(3)	Philosophy of Law 1
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights

Area 12: Environmental Management

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGRI 210	(3)	Agro-Ecological History
AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
ENVB 437	(3)	Assessing Environmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
NRSC 333	(3)	Pollution and Bioremediation
SOIL 335	(3)	Soil Ecology and Management
WILD 401	(4)	Fisheries and Wildlife Management
WILD 415*	(2)	Conservation Law
WOOD 441	(3)	Integrated Forest Management

4.10.21 French Language and Literature (FREN)

Le Département de langue et de littérature française, les programmes et les cours offerts sont décrits sous *Programs, Courses and University Regulations* (programmes, cours et politiques de l'Université) > *Faculties & Schools* (facultés et écoles) > *Faculty of Arts* (Faculté des arts) > *Undergraduate* (programmes de premier cycle) > *Academic Programs* (programmes d'études) > [section 3.10.22: French Language and Literature \(FREN\)](#) (langue et littérature française).

4.10.21.1 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Critique littéraire (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Connaissance suffisante du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours obligatoire (3 crédits)

FREN 222	(3)	Introduction aux études littéraires

Cours complémentaires (15 crédits)

12 crédits choisis parmi les cours suivants :

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 394	(3)	Théorie de la traduction 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

3 crédits choisis parmi les cours de niveau 300 ou 400 du bloc « Études littéraires »

Bloc : « Études littéraires »

(a) Série Théorie littéraire

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1

FREN 362	(3)	La littérature du 17 ^e siècle 1
FREN 364	(3)	La littérature du 18 ^e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20 ^e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17 ^e siècle 2
FREN 459	(3)	La littérature du 18 ^e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19 ^e siècle 2
FREN 485	(3)	Littérature française contemporaine

4.10.21.2 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Études et pratiques littéraires (18 crédits)

Concentration mineure convertible en Concentration majeure option Études et pratiques littéraires.

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours complémentaires - Introduction (3 crédits)

3 crédits choisis parmi les cours d'introduction :

FREN 222	(3)	Introduction aux études littéraires
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

Cours complémentaires - Orientation (15 crédits)

En outre, l'étudiant(e) doit choisir entre deux orientations (streams) soit :

« Études littéraires » ou « Pratiques littéraires ».

Orientation - Études littéraires

Les 15 crédits de cours complémentaires se répartiront comme suit :

12 crédits choisis parmi les cours du bloc « Études littéraires » (au moins 3 de ces 12 crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800)

3 crédits choisis parmi les cours du bloc « Pratiques littéraires »

Orientation - Pratiques littéraires

Les 15 crédits de cours complémentaires se répartiront comme suit :

12 crédits choisis dans au moins deux séries différentes du bloc « Pratiques littéraires »

3 crédits choisis parmi les cours du bloc « Études littéraires »

I. Bloc : « Études littéraires »

(a) Série Théorie littéraire

FREN 337	(3)	Méthode d'analyse des textes littéraires 2

FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »**(a) Série Traduction**

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(b) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision

FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

4.10.21.3 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Langue française (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Aucune.

Cours complémentaires (18 crédits)

6 à 12 crédits choisis parmi les cours suivants du Centre d'enseignement du français :

FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 431	(6)	Français fonctionnel avancé
FRSL 445	(3)	Français fonctionnel, écrit 1
FRSL 446	(3)	Français fonctionnel, écrit 2
FRSL 449	(3)	Le français des médias
FRSL 455	(3)	Grammaire et création

6 à 12 crédits choisis parmi les cours du Département de langue et littérature françaises, soit :

FREN 201	(3)	Composition 1
FREN 203	(3)	Composition 2
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire avancée
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

4.10.21.4 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Langue française et traduction (18 crédits)

Concentration mineure qui ne peut pas être convertie en Concentration majeure.

Conditions d'admission : Aucune.

Cours complémentaires (18 crédits)

9 crédits choisis parmi les cours suivants :

FREN 201	(3)	Composition 1
FREN 203	(3)	Composition 2
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire avancée

9 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée

FREN 244	(3)	Traduction générale
FREN 341	(3)	Traduction et recherche 1
FREN 346	(3)	Traduction avancée
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.21.5 Baccalauréat ès Arts (B.A.) - Concentration mineure langue et littérature françaises - Traduction (18 crédits)

Concentration mineure convertible en Concentration majeure option Traduction.

Conditions d'admission : Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée au trimestre d'automne de U1.

Cours obligatoires (6 crédits)

FREN 244	(3)	Traduction générale
FREN 346	(3)	Traduction avancée

Cours complémentaires (12 crédits)

6 à 9 crédits choisis parmi :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 443	(3)	Traduction littéraire 2

3 à 6 crédits choisis parmi :

FREN 222	(3)	Introduction aux études littéraires
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.21.6 Baccalauréat ès Arts (B.A.) - Concentration majeure langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

Cours obligatoires (15 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 245	(3)	Grammaire avancée
FREN 333	(3)	Thème de littérature d'Ancien Régime
FREN 444	(3)	Thème de littérature moderne
FREN 450	(3)	Thème de littérature québécoise

Cours complémentaires (21 crédits)

L'étudiant(e) doit choisir entre 2 orientations (streams) soit:

« Études littéraires » ou « Pratiques littéraires »

Orientation « Études littéraires »

Les 21 crédits de cours complémentaires se répartiront comme suit :

18 crédits choisis parmi les cours du bloc « Études littéraires », comme suit :

(12-18 crédits de la série Oeuvres et courants (au moins 3 de ces 18 crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800. Dans cette série, un maximum de 3 crédits de cours de niveau 200)

0-6 crédits de la série Théorie littéraire

0-6 crédits de la série Langue française

3 crédits choisis parmi les cours du bloc « Pratiques littéraires »

Orientation « Pratiques littéraires »

Les 21 crédits de cours complémentaires se répartiront comme suit :

15 crédits choisis parmi les cours du bloc « Pratiques littéraires », comme suit :

Au moins 3 crédits de la série Traduction

Au moins 3 crédits de la série Création

Au moins 3 crédits de la série Édition

6 crédits choisis parmi les cours du bloc Études littéraires (un maximum de 3 crédits de cours de niveau 200).

I. Bloc: « Études littéraires »

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1
FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2

FREN 458	(3)	La littérature du 17 ^e siècle 2
FREN 459	(3)	La littérature du 18 ^e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19 ^e siècle 2
FREN 485	(3)	Littérature française contemporaine

(c) Série Langue française

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

II. Bloc : « Pratiques littéraires »**(a) Série Traduction**

FREN 239	(3)	Stylistique comparée
FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(b) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : Les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.21.7 Baccalauréat ès Arts (B.A.) - Concentration majeure langue et littérature françaises - Traduction (36 crédits)

Conditions d'admission : Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 (Stylistique comparée) au trimestre d'automne de U1.

Cours obligatoires (12 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 244	(3)	Traduction générale
FREN 245	(3)	Grammaire avancée
FREN 346	(3)	Traduction avancée

Cours complémentaires (24 crédits)

24 crédits, répartis comme suit:

12 à 15 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 494	(3)	Traduction spécialisée

3 à 6 crédits choisis parmi les cours suivants:

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

6 crédits choisis parmi les cours de la série Oeuvres et courants du bloc « Études littéraires » (dans cette série, un maximum de 3 crédits de cours de niveau 200).

I. Bloc « Études littéraires »

Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1

FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.21.8 Baccalauréat ès Arts (B.A.) - Double Spécialisation en langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Conditions d'admission : Bonne connaissance du français lu, écrit et parlé; cette connaissance pourra être vérifiée à l'aide d'un test.

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2e et 3e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

Les étudiants qui souhaitent poursuivre leur études en spécialisation dans deux domaines distincts peuvent s'inscrire dans deux départements de la Faculté des Arts (consulter la section de ladite Faculté, sous les rubriques « Overview of Programs Offered » et « Joint Honours Programs »). Ces étudiants devraient rencontrer un conseiller dans chacun des deux départements concernés, pour établir leur choix de cours et formuler leur projet de recherche interdisciplinaire, le cas échéant.

Cours obligatoires (24 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 245	(3)	Grammaire avancée
FREN 333	(3)	Thème de littérature d'Ancien Régime
FREN 444	(3)	Thème de littérature moderne
FREN 450	(3)	Thème de littérature québécoise
FREN 464D1*	(3)	Projet de recherche individuel
FREN 464D2*	(3)	Projet de recherche individuel
FREN 595	(3)	Séminaire avancé lettres françaises

* suivre en U3

Cours complémentaires (12 crédits)

I. Bloc : « Études littéraires »

6 crédits choisis parmi les cours du bloc « Études littéraires », comme suit :

3-6 crédits de la série Oeuvres et courants (dans cette série, un maximum de 3 crédits de cours de niveau 200)

0-3 crédits de la série Théorie littéraire

0-3 crédits de la série Langue française

(a) Série Théorie littéraire

FREN 334	(3)	Méthode d'analyse des textes littéraires 1

FREN 337	(3)	Méthode d'analyse des textes littéraires 2
FREN 391	(3)	Doctrines et idées littéraires 1
FREN 490	(3)	Théorie littéraire contemporaine
FREN 496	(3)	Doctrines et idées littéraires 2

(b) Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

(c) Série Langue française

FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

II. Bloc : « Pratiques littéraires »

6 crédits parmi les cours du bloc « Pratiques littéraires », comme suit:

0-6 crédits de la série Traduction

0-6 crédits de la série Création

0-6 crédits de la série Édition

(a) Série Traduction

FREN 239	(3)	Stylistique comparée

FREN 244	(3)	Traduction générale
FREN 324	(3)	Traduction littéraire 1
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494	(3)	Traduction spécialisée

(c) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(c) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : Les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.21.9 Baccalauréat ès Arts (B.A.) - Double Spécialisation en langue et littérature françaises - Traduction (36 crédits)

Conditions d'admission: Bonne connaissance du français et de l'anglais lus et écrits; cette connaissance est vérifiée à l'aide d'un test; en cas de note insuffisante lors de ce test, l'étudiant(e) s'inscrira plutôt au programme de Concentration majeure (option Traduction) et suivra le cours FREN 239 (Stylistique comparée) au trimestre d'automne de U1. L'étudiant(e) pourra demander de nouveau l'autorisation de s'inscrire au programme de Spécialisation (option Traduction) à la fin de U1; cette autorisation lui sera accordée si ses notes dans chacun de ses cours de programme suivis en U1 sont égales ou supérieures à 75 % (B+).

L'obtention d'un baccalauréat avec Spécialisation ou Double Spécialisation est obligatoire pour l'admission dans les programmes de 2e et 3e cycles (maîtrise et doctorat).

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de 3.00 pour l'ensemble des cours du programme et maintenir un CGPA de 3.00.

Les étudiants qui souhaitent poursuivre leur études en spécialisation dans deux domaines distincts peuvent s'inscrire dans deux départements de la Faculté des Arts (consulter la section de ladite Faculté, sous les rubriques « Overview of Programs Offered » et « Joint Honours Programs »). Ces étudiants devraient rencontrer un conseiller dans chacun des deux départements concernés, pour établir leur choix de cours et formuler leur projet de recherche interdisciplinaire, le cas échéant.

Cours obligatoires (15 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 231	(3)	Linguistique française
FREN 244	(3)	Traduction générale
FREN 245	(3)	Grammaire avancée
FREN 346	(3)	Traduction avancée

Cours complémentaires (21 crédits)

15 crédits, répartis comme suit :

12 crédits choisis parmi les cours suivants :

FREN 239	(3)	Stylistique comparée
FREN 324	(3)	Traduction littéraire 1

FREN 341	(3)	Traduction et recherche 1
FREN 347	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431	(3)	Traduction et révision
FREN 441	(3)	Traduction français-anglais
FREN 443	(3)	Traduction littéraire 2
FREN 494	(3)	Traduction spécialisée

3 crédits choisis parmi les cours suivants :

FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 394	(3)	Théorie de la traduction 1
FREN 425	(3)	Théorie de la traduction 2
FREN 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

I. Bloc : « Études littéraires »

3-6 crédits choisis parmi les cours de la Série Oeuvres et courants. (maximum de 3 crédits de cours de niveau 200)

Série Oeuvres et courants

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littérature de la francophonie
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

II. Bloc : « Pratiques littéraires »

0-3 crédits choisis parmi les cours des séries Création et Édition du bloc « Pratiques littéraires ».

(a) Série Création

FREN 240	(3)	Atelier d'écriture poétique
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

(b) Série Édition

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.22 Geography (GEOG)

The Department of Geography, the discipline, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.16: Geography \(GEOG\)](#)*.



Note: students may take a Geography program either in Arts or in Science, but not in both.

The following are considered Arts programs in the B.A. & Sc.:

- Major Concentration in Geography
- Major Concentration in Geography (Urban Systems)
- Minor Concentration in Geography
- Minor Concentration in Geography (Urban Systems)

The following are considered Science programs in the B.A. & Sc.:

- Major Concentration in Geography (Physical Geography)
- Minor in Geographic Information Systems and Remote Sensing
- Minor in Geography

4.10.22.1 Bachelor of Arts (B.A.) - Minor Concentration Geography (18 credits)

The Minor Concentration Geography is designed to provide students in the Faculty of Arts with an overview of basic elements of human geography at the introductory and advanced level.

This Minor concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Systems).

Complementary Courses (18 credits)

9 credits selected from:

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

9 credits from Geography (GEOG) courses at the 300 or 400 level.

4.10.22.2 Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Systems) (18 credits)

This Minor concentration may be expanded into the Major Concentration Geography (Urban Systems).

Complementary Courses (18 credits)

18 credits selected as follows:

Group A

9-12 credits selected from:

GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography
GEOG 494	(3)	Urban Field Studies

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378;

U3 - ARCH 515, ARCH 527, ARCH 528, ARCH 529, and ARCH 550.

Note: ARCH 550 has the same content as CIVE 433 but requires an additional project.

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 550	(3)	Urban Planning and Development

Art History & Communication Studies

COMS 425	(3)	Urban Culture & Everyday Life

Civil Engineering

CIVE 433 requires departmental permission to register (telephone: 514-398-6345).

CIVE 433	(3)	Urban Planning
CIVE 540	(3)	Urban Transportation Planning

Geography

GEOG 307	(3)	Socioeconomic Applications of GIS

History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Political Science

POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 506	(3)	Environmental Policy and Planning

4.10.22.3 Bachelor of Science (B.Sc.) - Minor Geography (18 credits)

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (12 credits)

GEOG 203	(3)	Environmental Systems
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 302	(3)	Environmental Management 1

Complementary Courses (6 credits)

6 credits of Geography courses at the 300 and 400 level.

4.10.22.4 Bachelor of Science (B.Sc.) - Minor Geographic Information Systems and Remote Sensing (18 credits)

The Geographic Information Systems (GIS) and Remote Sensing Minor program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing

Complementary Courses (6 credits)

3 credits selected from:

GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

3 credits selected from:

ANTH 511	(3)	Computational Approaches to Prehistory
ATOC 309	(3)	Weather Radars and Satellites
COMP 202	(3)	Foundations of Programming
COMP 208	(3)	Computers in Engineering
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 506*	(3)	Advanced Geographic Information Science
GEOG 535*	(3)	Remote Sensing and Interpretation

* GEOG 506 or GEOG 535 may be taken in either list of complementary courses, but credits from one group may not be double-counted in the other.

4.10.22.5 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Geography - Physical Geography (36 credits)

The Major Concentration Geography - Physical Geography, which is restricted to students in the B.A. & Sc., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Complementary Courses (24 credits)

Courses are selected as follows:

6 credits of analytical techniques are selected from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods

3 credits of field courses selected from:

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

9-15 credits in systematic physical geography selected from:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology

GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

0-6 credits in integrative and advanced topics selected from:

GEOG 302	(3)	Environmental Management 1
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

4.10.22.6 Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)

This program is designed to cover the main elements of human geography.

Required Courses (7 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 210	(3)	Global Places and Peoples
GEOG 290	(1)	Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494	(3)	Urban Field Studies

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Analysis and Methodology

3 credits from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 506	(3)	Advanced Geographic Information Science

Geography

The remaining 18 credits are to be selected from Geography (GEOG) courses excluding GEOG 200 and GEOG 205. Of these 18 credits, at least 3 credits must be at the 400 level or above.

4.10.22.7 Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Systems) (36 credits)

This interdisciplinary concentration exposes students to the various approaches to urban studies in many disciplines.

Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Systems, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods
GEOG 494	(3)	Urban Field Studies

Complementary Courses (24 credits)

24 credits selected as follows:

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

21 credits from the course lists below:

Geography

* Students can choose one only from GEOG 210, GEOG 216 or GEOG 221.

GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 290	(1)	Local Geographical Excursion
GEOG 303	(3)	Health Geography
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 311	(3)	Economic Geography
GEOG 316	(3)	Political Geography
GEOG 331	(3)	Urban Social Geography
GEOG 504	(3)	Industrial Restructuring - Geographic Implications
GEOG 507	(3)	Advanced Social Geography
GEOG 511	(3)	Advanced Political Geography

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378;

U3 - ARCH 515, ARCH 517, ARCH 520, ARCH 527, ARCH 528, ARCH 529, ARCH 550, ARCH 561, ARCH 562, ARCH 564, ARCH 566.

Note: ARCH 550 has the same content as CIVE 433 but requires an additional project.

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 550	(3)	Urban Planning and Development
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

Art History & Communication Studies

COMS 425	(3)	Urban Culture & Everyday Life

Civil Engineering

Note: CIVE 433 has the same content as ARCH 550, but has limited enrolment and departmental permission is required.

CIVE 433	(3)	Urban Planning
CIVE 540	(3)	Urban Transportation Planning

History

HIST 353	(3)	History of Montreal

HIST 397	(3)	Canada: Ethnicity, Migration

Management

FINE 445	(3)	Real Estate Finance

Political Science

POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3

4.10.22.8 Bachelor of Arts (B.A.) - Joint Honours Component Geography (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

In addition to the Faculty requirement that Joint Honours students maintain a minimum CGPA of at least 3.00, students in a Joint Honours Component Geography program must maintain a program GPA of at least 3.30.

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice

Complementary Courses (27 credits)

27 credits selected as follows:

Introductory

12 credits of introductory courses from:

GEOG 203	(3)	Environmental Systems

GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1/GEOG 492D2. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 492D1	(1.5)	Joint Honours Research
GEOG 492D2	(1.5)	Joint Honours Research

Remaining Geography

6-9 credits from a coherent set of Geography (GEOG) courses approved by the Program Adviser. Including a field course is desirable.

4.10.23 History and Classical Studies - History (HIST)

History, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.24: History and Classical Studies \(HIST & CLAS\)](#)*.

4.10.23.1 Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)

This program may be expanded to the Major Concentration History.

Complementary Courses (18 credits)

18 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A minimum of 12 credits at the 300 level or higher.

A minimum of 15 credits from any one area.

Students should see an adviser to plan a program that suits their needs.

Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865

HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America

HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801

HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History

HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine

HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

4.10.23.2 Bachelor of Arts (B.A.) - Major Concentration History (36 credits)

Please note that this program is currently under review.

Complementary Courses (36 credits)

36 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A maximum of 12 credits at the 200 level or lower.

A maximum of 24 credits from any one area.

3 credits in history of the pre-1800 period.

3 credits in history of the post-1800 period.

Students should see an adviser to plan a program that suits their needs. Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867

HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2

HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557.

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History

HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History

HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944
HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain
HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History

HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2
HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine

HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

Courses Offered by Other Units

The following course(s) may be chosen by History Major concentration and Honours students as part of their programs.

Please consult with History Department program advisers for courses that do not appear here.

Anthropology (ANTH)

ANTH 306	(3)	Native Peoples' History in Canada

Art History (ARTH)

Please consult with History Department program advisers.

Canadian Studies (CANS)

Please consult with History Department program advisers.

Islamic Studies (ISLA)

Please consult with History Department program advisers.

Jewish Studies (JWST)

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

Quebec Studies (QCST)

Please consult with History Department program advisers.

NOTE: AP/IB credits may not be counted toward history program credits but may be considered as having met prerequisites for upper-level history courses. Students should consult with the Honours Program Adviser.

4.10.23.3 Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)

Please note that this program is currently under review.

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students must maintain a 3.30 grade point average in their program courses and must have no less than a "B" in any program course. In addition, and in accordance with Faculty of Arts rules, students must maintain an overall CGPA of 3.00.

Note: AP/IB credits may not be counted toward history program credits but may be considered as having met prerequisites for upper-level courses. Students should consult the Honours Program Adviser

Required Course (3 credits)

HIST 399	(3)	History and Historical Methods

Complementary Courses (33 credits)

33 credits selected from the areas of History course lists (The Americas, Europe, Asia/Africa/Middle East, and Global/Thematic) with the following stipulations:

A maximum of 12 credits at the 200 level or lower.

A maximum of 27 credits in any one of the areas.

A minimum of 6 credits of Honours seminars (these are listed with their thematic area). Each Honours seminar comprises a 6-credit course with a D1/D2 course number or two 3-credit courses to be taken consecutively. The second term component includes the completion of a major research paper based substantially on primary-source research. Both parts of a D1/D2 seminar must be completed to receive credit. The first course of a two-part seminar may be taken alone in exceptional circumstances, but in that case will be counted towards the complementary course component of the program only and will not be counted as an Honours seminar.

In all cases, students should see an adviser to plan a program that suits their needs. Please consult the Department website for the most up-to-date list of course offerings for the current academic year.

The Americas - FYS & 200 Level

HIST 197	(3)	FYS: Race in Latin America
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
HIST 223	(3)	Natives of the Americas

The Americas - 300 Level

HIST 300	(3)	Nationalisms in Canada
HIST 301	(3)	U.S. Presidential Campaigning

HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 312	(3)	Hist of Consumption in Canada
HIST 322	(3)	Canada: American Presence since 1939
HIST 327	(3)	Age of the American Revolution
HIST 331	(3)	The United States Between the Wars
HIST 333	(3)	Natives and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada: External Relations since 1867
HIST 343	(3)	Women in Post-Confederation Canada
HIST 351	(3)	Themes in U.S. History since 1865
HIST 353	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	The Canadian West
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 366	(3)	Themes in Latin American History 1
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 371	(3)	American Civil Rights 1877-1940
HIST 373	(3)	Canadian Labour History
HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
HIST 395	(3)	Canadian Military Experience
HIST 397	(3)	Canada: Ethnicity, Migration

The Americas - 400 Level

HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Themes in Latin American History 2
HIST 414	(3)	Canadian Cultural History
HIST 419	(3)	Central America
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 429	(3)	Topics: Canadian Family History
HIST 431	(3)	Topics in U.S. History
HIST 432	(3)	The Atlantic Provinces
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America

The Americas - 500 Level

HIST 530	(3)	U.S. Foreign Relations
HIST 583	(3)	Conservatism in Canada

The Americas - Honours Seminars

Honours two-part seminar in the list below: HIST 556/HIST 557.

HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 469D1	(3)	Topics in Canadian Religious History
HIST 469D2	(3)	Topics in Canadian Religious History
HIST 483D1	(3)	History of Montreal
HIST 483D2	(3)	History of Montreal
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
HIST 556	(3)	Colonial America: Seminar 1
HIST 557	(3)	Colonial America: Seminar 2
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
HIST 593D1	(3)	French Atlantic Worlds: Seminar
HIST 593D2	(3)	French Atlantic Worlds: Seminar

Asia/Africa/Middle East - 200 Level

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 206	(3)	Africa and the Indian Ocean World
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 240	(3)	Modern History of Islamic Movements

Asia/Africa/Middle East - 300 Level

HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	History of Japan 1
HIST 328	(3)	The Qing Empire
HIST 337	(3)	Japanese Intellectual History 1
HIST 338	(3)	Twentieth-Century China

HIST 339	(3)	Arab-Israeli Conflict
HIST 344	(3)	The Chinese Family in History
HIST 348	(3)	China: Science-Medicine-Technology
HIST 352	(3)	Japanese Intellectual History 2
HIST 358	(3)	Medieval to Early Modern China
HIST 359	(3)	History of Japan 2
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 382	(3)	History of South Africa
HIST 396	(3)	Disease in Africa Since 1960

Asia/Africa/Middle East - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 444	(3)	British Colonies: Africa and Asia
HIST 445	(3)	Late Imperial China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 478	(3)	Pre-modern Chinese Law and Society

Asia/Africa/Middle East - 500 Level

HIST 581	(3)	The Art of War in China

Asia/Africa/Middle East - Honours Seminars

HIST 485D1	(3)	Seminar in Japanese History
HIST 485D2	(3)	Seminar in Japanese History
HIST 497D1	(3)	Topics in Chinese History
HIST 497D2	(3)	Topics in Chinese History

Europe - FYS & 200 Level

HIST 205	(3)	Ancient Mediterranean History
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
HIST 216	(3)	History of Russia to 1801
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 231	(3)	Archaeology of the Ancient World
HIST 236	(3)	Russia from 1801 to 1991

Europe - 300 Level

HIST 305	(3)	Ancient Mediterranean Warfare
HIST 306	(3)	East Central Europe Since 1944

HIST 307	(3)	Jews in Poland
HIST 312	(3)	Hist of Consumption in Canada
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 314	(3)	Reformation in Britain & Ireland
HIST 316	(3)	Russia: Revolutions 1905 and 1917
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
HIST 324	(3)	History of Ireland
HIST 325	(3)	Renaissance-Reformation Europe
HIST 330	(3)	Science in the Medieval West
HIST 332	(3)	Women in Europe, 1350-1700
HIST 336	(3)	France, 1789 to 1914
HIST 345	(3)	History of Italian Renaissance
HIST 346	(3)	France, 1914 to the Present
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 354	(3)	Women in Europe 1700-2000
HIST 355	(3)	Topics in German History
HIST 356	(3)	Medicine in the Medieval West
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 372	(3)	The Low Countries: 14th - 17th Century
HIST 375	(3)	Roman History: Early Empire
HIST 376	(3)	Roman History: Later Empire
HIST 379	(3)	Greek History: Hellenistic Period
HIST 380	(3)	Western Europe: The Middle Ages
HIST 383	(3)	Eighteenth-Century Britain
HIST 384	(3)	Nineteenth-Century Britain
HIST 385	(3)	Making Great Britain & Ireland
HIST 386	(3)	Twentieth-Century Britain
HIST 390	(3)	Eighteenth-Century France
HIST 391	(3)	Roman History: Republic
HIST 394	(3)	British Revolutions 1603-1714
HIST 398	(3)	Topics in Italian History

Europe - 400 Level

HIST 400	(3)	Ancient Greece, Rome and China
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 402	(3)	East Central Europe 1918-1941
HIST 405	(3)	European Cultural History 1
HIST 406	(3)	Petrine and Catherinian Russia
HIST 407	(3)	Topics in Ancient History
HIST 412	(3)	Women and Gender in Modern Britain

HIST 415	(3)	European Cultural History 2
HIST 416	(3)	British and French Identity
HIST 417	(3)	British & Irish Nationalisms
HIST 421	(3)	Topics in Early Modern Europe
HIST 425	(3)	European Food History
HIST 426	(3)	Topics: British Cultural History
HIST 428	(3)	History of the Book in Britain
HIST 433	(3)	British Queer History
HIST 436	(3)	Topics: European History
HIST 449	(3)	Medicine in the Ancient World
HIST 450	(3)	Ancient History Methods
HIST 451	(3)	The Ancient Mediterranean City
HIST 453	(3)	History of Revolution in Europe
HIST 456	(3)	Russian Intellectual History 1825-1917
HIST 460	(3)	Milton in Myth and History
HIST 474	(3)	History of the GULAG 1918-1991

Europe - 500 Level

HIST 582	(3)	European Intellectual History

Europe - Honours Seminars

Honours two-part seminars in the list below: HIST 466/HIST 496, HIST 550/HIST 551, HIST 565/HIST 566.

HIST 465D1	(3)	Seminar: Italian Renaissance
HIST 465D2	(3)	Seminar: Italian Renaissance
HIST 466	(3)	Seminar: Medieval Medicine
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 476D1	(3)	Seminar: Topics in Russian History
HIST 476D2	(3)	Seminar: Topics in Russian History
HIST 482D1	(3)	Seminar: Antiquity to Reformation
HIST 482D2	(3)	Seminar: Antiquity to Reformation
HIST 489D1	(3)	Topics: Germany
HIST 489D2	(3)	Topics: Germany
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 496	(3)	Research: Medieval Medicine
HIST 498D1	(3)	Seminar in Eastern Europe
HIST 498D2	(3)	Seminar in Eastern Europe
HIST 550	(3)	Ancient History: Seminar
HIST 551	(3)	Ancient History: Research
HIST 565	(3)	Modern Britain: Seminar 1
HIST 566	(3)	Modern Britain: Seminar 2

HIST 594D1	(3)	Seminar in Early Modern Britain
HIST 594D2	(3)	Seminar in Early Modern Britain
HIST 595D1	(3)	Seminar: Early Modern Western Europe
HIST 595D2	(3)	Seminar: Early Modern Western Europe

Global/Thematic - FYS & 200 Level

HIST 193	(3)	FYS: Topics in History
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 195	(3)	FYS: Sources of World History
HIST 198	(3)	FYS: Nation Building and Nationalism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 1300-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 238	(3)	Histories of Science
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment

Global/Thematic - 300 Level

HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 310	(3)	Knowledge and Atlantic Empire
HIST 315	(3)	Themes in World History
HIST 317	(3)	Introduction to Indian Ocean World History
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 350	(3)	Science and the Enlightenment
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War

Global/Thematic - 400 Level

HIST 408	(3)	Colonialism and Native Peoples
HIST 410	(3)	Topics in History of Science
HIST 418	(3)	Topics: Atlantic World
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 427	(3)	The Hasidic Movement
HIST 430	(3)	Topics in Modern Medicine
HIST 438	(3)	Topics in Cold War History
HIST 440	(3)	Fiction and History
HIST 457	(3)	Topics in Medical History

Global/Thematic - 500 Level

HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HIST 527	(3)	Topics: Indian Ocean World History
HIST 528	(3)	Indian Ocean World Slave Trade
HIST 585	(3)	Theory for Historical Studies
HIST 590	(3)	Topics: The British Empire

Global/Thematic - Honours Seminars

Honours two-part seminars in the list below: HIST 458/HIST 459, HIST 552/HIST 553, HIST 560/HIST 561.

HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
HIST 492D1	(3)	Topics in Comparative History
HIST 492D2	(3)	Topics in Comparative History
HIST 552	(3)	International Relations: Seminar
HIST 553	(3)	International Relations: Research
HIST 560	(3)	World History: Seminar
HIST 561	(3)	World History: Research

Courses Offered by Other Units

The following course(s) may be chosen by History Major concentration and Honours students as part of their programs.

Please consult with History Department program advisers for courses that do not appear here.

Anthropology (ANTH)

ANTH 306	(3)	Native Peoples' History in Canada

Art History (ARTH)

Please consult with History Department program advisers.

Canadian Studies (CANS)

Please consult with History Department program advisers.

Islamic Studies (ISLA)

Please consult with History Department program advisers.

Jewish Studies (JWST)

JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America

Quebec Studies (QCST)

Please consult with History Department program advisers.

4.10.24 History and Philosophy of Science (HPSC)

History and Philosophy of Science, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.25: History and Philosophy of Science \(HPSC\)](#)*.

4.10.24.1 Bachelor of Arts (B.A.) - Minor Concentration History and Philosophy of Science (18 credits)

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. There is an ongoing seminar series of talks by visiting speakers; please visit <http://www.mcgill.ca/hpsc/seminars/> and <http://www.mcgill.ca/hpsc/lectures/>.

Complementary Courses (18 credits)

18 credits with a maximum of 9 credits at the 200 level selected as follows:

Philosophy of Science

6-12 credits of courses focused on the Philosophy of Science with no more than 6 credits at the 200 level chosen from the following:

Communication Studies (COMS)

COMS 210	(3)	Introduction to Communication Studies
COMS 410	(3)	Cultures in Visualization

History and Philosophy of Science (HPSC)

HPSC 300	(3)	Independent Studies: History and Philosophy of Science
HPSC 500	(3)	Interdisciplinary Seminar: History & Philosophy of Science

Philosophy (PHIL)

Either PHIL 210 or PHIL 310 may count toward the program but not both.

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 340	(3)	Philosophy of the Social Sciences 1
PHIL 341	(3)	Philosophy of Science 1
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 440	(3)	Philosophy of Social Sciences 2
PHIL 441	(3)	Philosophy of Science 2
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 541	(3)	Seminar: Philosophy of Science
PHIL 580	(3)	Seminar: Problems of Philosophy 1

Religious Studies (RELG)

RELG 340	(3)	Religion and the Sciences

Sociology (SOCI)

SOCI 338 (3) Introduction to Biomedical Knowledge

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

ANTH 359 (3) History of Archaeological Theory

Biology (BIOL)

BIOL 210 (3) Perspectives of Science

Geography (GEOG)

GEOG 381 (3) Geographic Thought and Practice

History (HIST)

HIST 249 (3) Health and the Healer in Western History

HIST 319 (3) The Scientific Revolution

HIST 335 (3) Science and Medicine in Canada

HIST 348 (3) China: Science-Medicine-Technology

HIST 350 (3) Science and the Enlightenment

HIST 356 (3) Medicine in the Medieval West

HIST 381 (3) Colonial Africa: Health/Disease

HIST 410 (3) Topics in History of Science

HIST 447 (3) The Natural History of America

HIST 452 (3) Medicine in Europe 1500-1700

HIST 457 (3) Topics in Medical History

HIST 458 (3) Modern Medicine: Seminar

HIST 459 (3) Modern Medicine: Research

HIST 466 (3) Seminar: Medieval Medicine

HIST 496 (3) Research: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300 (3) Independent Studies: History and Philosophy of Science

HPSC 500 (3) Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345 (3) Science and Civilization in Islam

Mathematics (MATH)

MATH 338 (3) History and Philosophy of Mathematics

Psychology (PSYC)

PSYC 403

(3)

Modern Psychology in Historical Perspective

4.10.25 Interdisciplinary Life Sciences Minor

Interdisciplinary Life Sciences Minor, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.18: Interdisciplinary Life Sciences](#)*.

4.10.25.1 Bachelor of Science (B.Sc.) - Minor Interdisciplinary Life Sciences (24 credits)

The Interdisciplinary Life Sciences Minor will allow students from the earth, physical, math, and computational science areas to broaden their studies with some basic life sciences, health social science, and empirical technological science. The Minor is 24 credits and allows students flexibility in their course selections. Students must take 9 credits from an extensive list of basic life science courses, 3 credits from an extensive list of health and social science courses, and 3 credits from an empirical and technological science list. The remaining 9 credits may be taken from courses listed in any of the three categories.

This Minor is not open to students taking a major, honours, or core science component in the following units: Anatomy and Cell Biology, Biochemistry, Microbiology and Immunology, and Physiology.

Interested students should contact the Interdisciplinary Programs Adviser.

Complementary Courses (24 credits)

The 24 credits required for this program must satisfy the following criteria:

At least 18 credits must be new credits that are not used to satisfy any other program.

At least 18 credits must be outside the student's main discipline.

Depth requirement:

at least 6 credits must be at the 300 level or above.

Breadth requirement:

at least 9 credits must be taken from the Basic Life Sciences List,

at least 3 credits from the Health Social Sciences List,

at least 3 credits from the Empirical Science and Technology List.

The remaining 9 credits may be selected from any of the lists.

Basic Life Sciences

At least 9 credits from:

* Students take either ANAT 212 or BIOC 212, but not both.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
CHEM 504	(3)	Drug Design and Development 2
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

Health Social Science

At least 3 credits from:

ANTH 204	(3)	Anthropology of Meaning
ANTH 227	(3)	Medical Anthropology

ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ECON 440	(3)	Health Economics
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
HIST 249	(3)	Health and the Healer in Western History
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 447	(3)	The Natural History of America
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
PHIL 237	(3)	Contemporary Moral Issues
PHIL 343	(3)	Biomedical Ethics
POLI 417	(3)	Health Care in Canada
PSYC 215	(3)	Social Psychology
PSYC 304	(3)	Child Development
PSYC 333	(3)	Personality and Social Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 413	(3)	Cognitive Development
PSYC 414	(3)	Social Development
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

Empirical Science and Technology

At least 3 credits from:

* Students who have already received credit for MATH 324 will NOT receive credit for GEOG 202, MATH 203, PSYC 204, BIOL 373, MATH 204, or PSYC 305.

Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
COMP 364	(3)	Computer Tools for Life Sciences

COMP 462	(3)	Computational Biology Methods
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 305	(3)	Statistics for Experimental Design

4.10.26 International Development Studies (INTD)

International Development Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.27: International Development Studies \(INTD\)](#)*.

4.10.26.1 Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)

This program may be expanded to the Major Concentration International Development Studies.

Course Selection Guidelines for the Overall Program

1. At least 9 of the 18 credits must be at the 300 level or above.
2. Students may complete the Minor concentration with no more than 9 credits in total from any one discipline.

Required Courses (9 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development

Complementary Courses (9 credits)

Introductory

3 credits from the following introductory courses:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

6 credits from any of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained

economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China

EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

4.10.26.2 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)**Course Selection Guidelines for the Overall Program**

1. In their complete program (36 credits), students can take a maximum of 12 credits from any one discipline and must complete a minimum of 9 credits from two disciplines.
2. At least 18 of the 36 credits must be at the 300 level or above.
3. In the final year (U3), no program courses may be taken below the 300 level.

Required Courses (15 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (21 credits)

Introductory

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

15 credits from one of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and

consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies

SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 499	(3)	Internship: International Development Studies

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

4.10.26.3 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 24 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
2. In the final year (U3), no program courses may be taken below the 300 level.

Required Courses (18 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 491	(3)	Honours Thesis
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (18 credits)

Introductory

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Streams

12 credits from one of the four IDS streams with at least three disciplines within the stream:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

Stream 1 - Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Stream 1 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 1 - Anthropology

ANTH 227	(3)	Medical Anthropology

Stream 1 - Economics

ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2

Stream 1 - Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 409	(3)	Geographies of Developing Asia

Stream 1 - History

HIST 348	(3)	China: Science-Medicine-Technology
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960

Stream 1 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 1 - Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Stream 1 - Management Policy

MGPO 475	(3)	Strategies for Developing Countries

Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 1 - Political Science

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations

Stream 1 - Sociology

SOCI 307	(3)	Sociology of Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

Stream 2 - Economics

ECON 223	(3)	Political Economy of Trade Policy

Stream 2 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 2 - Islamic Studies

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

Stream 2 - Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 369	(3)	Politics of Southeast Asia
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Stream 2 - Sociology

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

Stream 2 - Social Work

SWRK 400	(3)	Policy and Practice for Refugees

Stream 3: Culture and Society

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

Stream 3 - Anthropology

ANTH 209	(3)	Anthropology of Religion
ANTH 301	(3)	Nomadic Pastoralists
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Peoples of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 341	(3)	Women in Cross-cultural Perspective

ANTH 342	(3)	Gender, Inequality and the State
ANTH 422	(3)	Contemporary Latin American Culture & Society
ANTH 500	(3)	Chinese Diversity and Diaspora

Stream 3 - East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 213	(3)	World History, 1300-2000
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 528	(3)	Indian Ocean World Slave Trade

Stream 3 - Integrated Studies in Education

EDER 461	(3)	Society and Change

Stream 3 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 3 - Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics

ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islam in South Asia: 1707 to Present

Stream 3 - Management, Organizational Behaviour

ORGB 380	(3)	Cross Cultural Management

Stream 3 - Political Science

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the History course list for Stream 3.

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Stream 3 - Religious Studies

RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Stream 3 - Sociology

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Stream 4: Environment and Agricultural Resources

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

Stream 4 - Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Stream 4 - Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology

Stream 4 - Economics

ECON 326	(3)	Ecological Economics

Stream 4 - Geography

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

Stream 4 - International Development Studies

INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Field Research
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Stream 4 - Management Core

MGCR 360	(3)	Social Context of Business

Stream 4 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics

Stream 4 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

Stream 4 - Nutrition

NUTR 501	(3)	Nutrition in Developing Countries

Stream 4 - Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 520	(3)	Globalization: Planning and Change

4.10.27 Islamic Studies (ISLA)

Islamic Studies, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.28: Islamic Studies \(ISLA\)](#)*.

4.10.27.1 Bachelor of Arts (B.A.) - Minor Concentration Islamic Studies (18 credits)

This Minor concentration permits students to explore the development and diversity of Islam through courses that focus on Islamic history, religion and civilization in the pre-modern period (pre-19th century), as well as through courses that focus on the dynamics of modern and contemporary (19th through 21st centuries) Muslim societies and cultures.

Required Courses (6 credits)

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

Complementary Courses (12 credits)

12 credits selected from:

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islam in South Asia: 1707 to Present
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 585	(3)	Arab Women's Literature

4.10.28 Jewish Studies (JWST)

The Department of Jewish Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.29: Jewish Studies \(JWST\)](#)*.

4.10.28.1 Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City

JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature

JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors

JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

4.10.28.2 Bachelor of Arts (B.A.) - Minor Concentration Jewish Law (18 credits)

The Minor Concentration Jewish Law is designed to provide students with a special interest in Law, and particularly students from the Faculty of Law who are now permitted a minor in the Faculty of Arts, a basic but comprehensive knowledge of the concepts and methods related to Jewish Law.

This Minor concentration may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits selected as follows:

0 - 3 credits from:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

15 - 18 credits from:

JWST 201	(3)	Jewish Law
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 576	(3)	Jewish Family Law

4.10.28.3 Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies concentrations are placed into the category "Complementary Courses".

Complementary Courses (36 credits)

36 credits in Jewish Studies of which 24 are normally taken at the 300 level or above, selected as described below. Consultation with an adviser is strongly recommended.

Jewish History

6 credits (minimum) in the history of Jewish civilization to be chosen from:

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

6 credits reflecting an advanced level of competence in either Hebrew or Yiddish chosen from the following:

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy

JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Or, any course at the 400 level except for JWST 404 and JWST 405.

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement

JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish
JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe

JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

4.10.28.4 Bachelor of Arts (B.A.) - Joint Honours Component Jewish Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (9 credits)

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 491	(3)	Honours Thesis 1
JWST 492	(3)	Honours Thesis 2

Complementary Courses (27 credits)

27 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-6 credits of a Jewish language. Each Joint Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2

Areas of Jewish Studies

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 523	(3)	Ancient Bible Interpretation
JWST 536	(3)	Readings: Aramaic Bible Translation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature

JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 310	(3)	Believers, Heretics and Critics

JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 280D1	(3)	Introductory Yiddish
JWST 280D2	(3)	Introductory Yiddish
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 380D1	(3)	Intermediate Yiddish

JWST 380D2	(3)	Intermediate Yiddish
JWST 381	(3)	Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought

JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
SOCI 327	(3)	Jews in North America

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 374	(3)	Talmud and Law 1: Bava Kamma
JWST 375	(3)	Talmud and Law 2: Bava Metzia
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 477D1	(3)	Seminar in Jewish History
HIST 477D2	(3)	Seminar in Jewish History

4.10.29 Languages, Literatures, and Cultures (LLCU)

The Department of Languages, Literatures, and Cultures, the programs, and specific courses are described under *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Arts* > *Undergraduate* > *Academic Programs* > [section 3.10.30: Languages, Literatures, and Cultures \(LLCU\)](#).

4.10.29.1 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

This program may be expanded to the Major Concentration German Language and Literature.

Complementary Courses (18 credits)

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.

Note: Beginners' and Intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

GERM 200	(6)	German Language, Intensive Beginners
GERM 202D1	(3)	German Language, Beginners'
GERM 202D2	(3)	German Language, Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 307D1	(3)	German Language - Intermediate
GERM 307D2	(3)	German Language - Intermediate
GERM 325	(6)	German Language - Intensive Advanced
GERM 336	(3)	German Language, Media and Culture
GERM 341	(3)	Essay Writing
GERM 342	(3)	Translation
GERM 345	(3)	Business German 1
GERM 346	(3)	Business German 2

4.10.29.2 Bachelor of Arts (B.A.) - Minor Concentration German Literature (18 credits)

This is offered as a special program for students who already possess the necessary language skills before coming to McGill, or have acquired the competence by completing the intensive sequence (GERM 200 and GERM 300) as elective courses in their first year.

This program may be expanded to the Major Concentration German Language and Literature.

Required Course (6 credits)

GERM 325	(6)	German Language - Intensive Advanced

Complementary Courses (12 credits)

12 credits of courses in German literature or culture, given in German, such as:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 352	(3)	German Literature - 19th Century 3
GERM 353	(3)	19th Century Literary Topics
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 380	(3)	18th Century German Literature
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era

GERM 511	(3)	Middle High German Literature
GERM 580	(3)	Topics in 18th Century Literature

4.10.29.3 Bachelor of Arts (B.A.) - Minor Concentration German Literature and Culture in Translation (18 credits)

This program may not be expanded to a Major concentration.

Complementary Courses (18 credits)

18 credits of courses in German literature or culture in translation, such as:

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	German Culture: Gender and Society
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 382	(3)	Faust: Chapbook to Horror Film
GERM 580	(3)	Topics in 18th Century Literature

4.10.29.4 Bachelor of Arts (B.A.) - Minor Concentration Hispanic Languages (18 credits)

This program may be expanded to the Major Concentration Hispanic Studies - Languages.

Complementary Courses (18 credits)

18 credits from the list of courses below:

Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited toward the Minor.

Students with advanced standing in the language will replace language courses with more advanced courses in language, culture, or literature at the 200 level or above, selected from Departmental offerings.

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 310	(3)	How Spanish Works
HISP 380	(3)	Global Spanish
HISP 390	(3)	Spanish Through the Centuries
HISP 410	(3)	Investigating Spanish Grammar

4.10.29.5 Bachelor of Arts (B.A.) - Minor Concentration Hispanic Literature and Culture (18 credits)

This program may be expanded to the Major Concentration Hispanic Studies - Literature and Culture.

Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited towards the Minor.

Students with advanced standing in the language will replace language courses with more advanced courses in language, culture, or literature at the 200 level or above, selected from Departmental offerings.

Required Courses (6 credits)

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Complementary Courses (12 credits)

200 Level - Literature

6 credits from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2

300 Level or Above - Literature and Culture

6 credits from:

HISP 321	(3)	Spanish Literature - 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Spanish-American Literature
HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 457	(3)	Medieval Literature

HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque
HISP 505	(3)	Seminar in Hispanic Studies 01

4.10.29.6 Bachelor of Arts (B.A.) - Minor Concentration Italian Studies (18 credits)

This program may be expanded to the Major Concentration Italian Studies.

Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

Students with advanced standing in the language must replace language courses with courses in Groups B and C.

6-18 credits from Group B - Courses Taught in Italian and Group C - Courses Taught in English.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Literature and Society 1945-1989
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello

ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

4.10.29.7 Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

* RUSS 215 is not open to students who have taken RUSS 210 and RUSS 211.

** RUSS 316 is not open to students who have taken RUSS 310 and RUSS 311.

*** RUSS 415 is not open to students who have taken RUSS 400 and RUSS 401.

4.10.29.8 Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)

The Minor Concentration Russian Culture is designed primarily as an adjunct to area studies and/or programs in the humanities or social sciences. There are no Russian language requirements.

This program may be expanded into a Major Concentration in Russian.

Complementary Courses (18 credits)

Courses offered by LLC may be accepted subject to approval by the Department.

18 credits selected with the following specifications:

At least 6 credits from Group A

6-12 credits from Group B

Group A

At least 6 credits from:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature in Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

Group B

6-12 credits from:

RUSS 229	(3)	Introduction to Russian Folklore
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama
RUSS 390	(3)	Special Topics in Russian
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

4.10.29.9 Bachelor of Arts (B.A.) - Major Concentration Contemporary German Studies (36 credits)

The Major Concentration Contemporary German Studies is open to students with a sound knowledge of German as acquired in GERM 325 or equivalent. Those students who do not have the required competence in German may take the Major Concentration Contemporary German Studies only if they also take the Minor Concentration German Language. Proficiency, equivalency and placement will be determined by the Program Adviser.

Required Courses (9 credits)

GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
HIST 234	(3)	German History to 1648
HIST 235	(3)	German History since 1648

Complementary Courses (27 credits)

27 credits selected as follows:

A) 6 credits from courses in German Literature and Culture

B) 12 credits from courses in German Society

C) 9 credits from courses in German Studies

A) German Literature and Culture

6 credits in German Literature and Culture selected from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 357	(3)	German Culture in European Context
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna

B) German Society

12 credits in German Society chosen from three disciplines including History, or from two disciplines excluding History. Courses are to be selected from the lists below:

Economics

ECON 345	(3)	The International Economy since 1914
ECON 423	(3)	International Trade
ECON 424	(3)	International Payments

Management

BUSA 391	(3)	International Business Law
MGCR 382	(3)	International Business
MGPO 383	(3)	International Business Policy
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

Political Science

POLI 212	(3)	Government and Politics - Developed World
POLI 328	(3)	Comparing European Democracies
POLI 331	(3)	Politics in East Central Europe
POLI 344	(3)	Foreign Policy: Europe
POLI 357	(3)	Politics: Contemporary Europe
POLI 431	(3)	Nations and States/Developed World

Sociology

SOCI 330	(3)	Sociological Theory
SOCI 354	(3)	Dynamics of Industrial Societies

C) German Studies

9 credits in German Studies selected from the GERM courses below or from any advanced course in German language or German literature (taught in German or in translation) or from the lists of courses on German Society above. Other courses offered by Art History, Geography, Jewish Studies, Music, Philosophy, etc. can be substituted with permission of the Program Adviser.

GERM 345	(3)	Business German 1
GERM 346	(3)	Business German 2

Courses may also be chosen from the lists below.

Jewish Studies

JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
JWST 383	(3)	Holocaust Literature

Philosophy

PHIL 367	(3)	19th Century Philosophy
PHIL 474	(3)	Phenomenology

4.10.29.10 Bachelor of Arts (B.A.) - Major Concentration German Studies - Language and Literature (36 credits)

Required Courses (18 credits)

Students who have advanced standing equivalency for any of the language courses below will substitute more advanced courses in language, culture or literature.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

GERM 200	(6)	German Language, Intensive Beginners
GERM 202D1	(3)	German Language, Beginners'
GERM 202D2	(3)	German Language, Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 307D1	(3)	German Language - Intermediate
GERM 307D2	(3)	German Language - Intermediate
GERM 325	(6)	German Language - Intensive Advanced

Complementary Courses (18 credits)

18 credits of courses in literature distributed across different periods selected as follows:

20th Century Literature

at least 3 credits from:

GERM 357	(3)	German Culture in European Context
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945

GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature
GERM 364	(3)	German Culture: Gender and Society
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 382	(3)	Faust: Chapbook to Horror Film

Classicism or Romanticism

at least 3 credits from:

GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era
GERM 580	(3)	Topics in 18th Century Literature

Other Periods

at least 3 credits from:

GERM 352	(3)	German Literature - 19th Century 3
GERM 353	(3)	19th Century Literary Topics
GERM 380	(3)	18th Century German Literature
GERM 511	(3)	Middle High German Literature

Additional German Studies

9 credits selected from any of the literature courses above not already taken or from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies

Note: Courses on German literature or culture given in English may be substituted for any courses in the lists, to a maximum of 6 credits.

4.10.29.11 Bachelor of Arts (B.A.) - Major Concentration German Studies - Literature and Culture (36 credits)**Complementary Courses (36 credits)**

All German literature courses given in German require the linguistic competence acquired in GERM 325 or its equivalent. Such equivalence will be established by the Program Adviser.

36 credits selected as follows:

9 credits from:

GERM 330	(3)	Landeskunde
GERM 331	(3)	Germany after Reunification
GERM 360	(3)	German Literature 1890 to 1918
GERM 361	(3)	German Literature 1918 to 1945
GERM 362	(3)	20th Century Literature Topics
GERM 363	(3)	German Postwar Literature

15 credits from:

GERM 352	(3)	German Literature - 19th Century 3
GERM 353	(3)	19th Century Literary Topics
GERM 380	(3)	18th Century German Literature
GERM 450	(3)	Classical Period in German Literature
GERM 451	(3)	German Romanticism
GERM 455	(3)	Women of the Romantic Era
GERM 511	(3)	Middle High German Literature

12 credits from:

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 355	(3)	Nietzsche and Wagner
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	German Culture: Gender and Society
GERM 365	(3)	Language of Media from Manuscript to Hypertext
GERM 367	(3)	Topics in German Thought
GERM 382	(3)	Faust: Chapbook to Horror Film
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies

4.10.29.12 Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Languages (36 credits)

Complementary Courses (36 credits)

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Survey of Literature

6 credits in Survey of Literature from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1

HISP 244	(3)	Survey of Spanish-American Literature 2

300-Level or Above Hispanic Literature

12-30 credits in Hispanic literature at the 300 level or above, of which at least 6 credits must be in literature of the pre-1700 period, from:

HISP 310	(3)	How Spanish Works
HISP 321	(3)	Spanish Literature - 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 380	(3)	Global Spanish
HISP 410	(3)	Investigating Spanish Grammar
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Spanish-American Literature
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1700 Literature

At least 6 credits from:

HISP 390	(3)	Spanish Through the Centuries
HISP 437	(3)	Viceregal Spanish America
HISP 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

4.10.29.13 Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Literature and Culture (36 credits)**Required Courses (18 credits)**

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1

HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes

Complementary Courses (18 credits)

18 credits selected as follows:

300-Level or Above Hispanic Literature

At least 15 credits in Hispanic literature at the 300 level or above, of which at least 3 credits must be in literature of the pre-1700 period, from:

HISP 310	(3)	How Spanish Works
HISP 321	(3)	Spanish Literature - 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	The Generation of 1898
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 380	(3)	Global Spanish
HISP 410	(3)	Investigating Spanish Grammar
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Spanish-American Literature
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 454	(3)	Major Figures: Spanish Literature
HISP 455	(3)	Major Figures: Spanish-American Literature
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1700 Literature

At least 3 credits from:

HISP 390	(3)	Spanish Through the Centuries
HISP 437	(3)	Viceregal Spanish America
HISP 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

4.10.29.14 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses

- Students with no knowledge of the Italian language must take 12 credits in language.
- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1/ITAL 210D2, ITAL 215D1/ITAL 215D2, or ITAL 216.
- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

0-9 credits chosen from 200-level courses in Group B - Courses Taught in Italian.

12-36 credits chosen from courses at the 300 level and above, of which at least 3 credits must be at the 400 level or above, in Group B - Courses Taught in Italian.

0-6 credits from Group C - Courses Taught in English.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Literature and Society 1945-1989
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880

ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

4.10.29.15 Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2

RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211.

**RUSS 316 is not open to students who have taken RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature in Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama
RUSS 390	(3)	Special Topics in Russian
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

4.10.29.16 Bachelor of Arts (B.A.) - Joint Honours Component German Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (21 credits)

GERM 200	(6)	German Language, Intensive Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 325	(6)	German Language - Intensive Advanced
GERM 570	(3)	Joint Honours Thesis

With permission of the Adviser, students with advanced standing in German language will replace language courses for more advanced courses in language, culture or literature.

Complementary Courses (15 credits)

15 credits selected from 400- to 500-level German literature and culture courses, from at least three centuries, with the approval of the Adviser.

4.10.29.17 Bachelor of Arts (B.A.) - Joint Honours Component Hispanic Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (12 credits)

HISP 451D1	(3)	Cervantes
HISP 451D2	(3)	Cervantes
HISP 490D1	(3)	Honours Thesis
HISP 490D2	(3)	Honours Thesis

Complementary Courses (24 credits)

24 credits selected as follows:

Survey of Literature

At least 6 credits from:

HISP 241	(3)	Survey of Spanish Literature 1
HISP 242	(3)	Survey of Spanish Literature 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2

400-Level

At least 6 credits from the 400-level courses below:

HISP 437	(3)	Viceregal Spanish America
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

All remaining credits may be selected from courses given in Spanish in the Department above the Intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

4.10.29.18 Bachelor of Arts (B.A.) - Joint Honours Component Italian Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to Joint Honours requires departmental approval. Students wishing to register in the program should consult with the Department as early as possible. Students may register for Joint Honours in the first year, instead of the second year, if in the opinion of the departments they are found to be qualified.

Required Courses (6 credits)

ITAL 355	(3)	Dante and the Middle Ages
ITAL 470	(3)	Joint Honours Thesis

Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Elementary Italian
ITAL 210D2	(3)	Elementary Italian
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Contemporary Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Neorealism: Roots and Development
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities

ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi and Italian Romanticism
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th & 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Italian Prose after 1945
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	(3)	Mediterranean Society and Culture
ARTH 223	(3)	Introduction Early Modern Art 1600-1700
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 208	(3)	Introduction to Roman Literature
CLAS 404	(3)	Classical Tradition
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
HIST 345	(3)	History of Italian Renaissance
HIST 380	(3)	Western Europe: The Middle Ages
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics: Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini
POLI 414	(3)	Society and Politics in Italy

4.10.29.19 Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable). Twelve credits in Russian and 12 credits in the cooperating department are normally taken each year.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

Prior to registering for each Joint Honours component, students must see advisers in the respective departments for approval of their selection. Departmental advisers will only approve combinations that are feasible, given the nature of the research project that would be involved. Students who neglect to obtain prior approval may jeopardize their graduation.

4.10.30 Latin-American and Caribbean Studies (LACS)

Latin-American and Caribbean Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.31: Latin-American and Caribbean Studies \(LACS\)](#)*.

4.10.30.1 Bachelor of Arts (B.A.) - Major Concentration Latin American Studies (36 credits)

Required Courses (18 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Spanish-American Literature 1
HISP 244*	(3)	Survey of Spanish-American Literature 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
POLI 319	(3)	Politics of Latin America

Complementary Courses (18 credits)

18 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements:

- 1) Courses from at least two disciplines or departments must be included.
- 2) At least 6 of the 18 credits must be at the 300 level or above.
- 3) No more than 6 credits in Spanish or Portuguese language (HISP 210D1/D2, HISP 218, HISP 219, HISP 220D1/D2, HISP 222) shall count for the Major concentration.

Complementary Course List

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology & Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture & Society

Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310	(3)	Development and Livelihoods
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

Hispanic Studies

HISP 202	(6)	Portuguese Language: Beginners
HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 243	(3)	Survey of Spanish-American Literature 1
HISP 244	(3)	Survey of Spanish-American Literature 2
HISP 302	(3)	Hispanic Literature - English Translation 2
HISP 328	(3)	Literature of Ideas: Spanish America
HISP 332	(3)	Spanish-American Literature of 19th Century
HISP 333	(3)	Spanish-American Drama
HISP 351	(3)	Spanish-American Novel 1
HISP 352	(3)	Spanish-American Novel 2
HISP 356	(3)	Spanish-American Short Story
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 437	(3)	Viceregal Spanish America
HISP 453	(3)	20th Century Spanish-American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Natives of the Americas
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
HIST 366	(3)	Themes in Latin American History 1
HIST 409	(3)	Themes in Latin American History 2
HIST 419	(3)	Central America
HIST 464D1	(3)	Topics: Latin American History
HIST 464D2	(3)	Topics: Latin American History
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters

Political Science

POLI 227	(3)	Developing Areas/Introduction

POLI 319 (3) Politics of Latin America

4.10.31 Linguistics (LING)

The Department of Linguistics, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.33: Linguistics \(LING\)](#)*.

4.10.31.1 Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)

This program may be expanded to the Major Concentration Linguistics.

Required Courses (9 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 371	(3)	Syntax 1

Complementary Courses (9 credits)

9 credits in Linguistics (LING) selected as follows:

3 credits must be at the 400 or 500 level,

3 credits must be selected from the following list, and

3 credits can be chosen according to the student's interests.

Note: If a 400- or 500-level course is chosen from the following list, the remaining 6 credits can be chosen according to the student's interests.

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 390	(3)	Neuroscience of Language
LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

Students who take LING 360 as a complementary course may also take PHIL 210 as a complementary but must choose a 400- or 500-level course from the list above.

LING 360	(3)	Introduction to Semantics
PHIL 210	(3)	Introduction to Deductive Logic 1

4.10.31.2 Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)

Required Courses (18 credits)

LING 201	(3)	Introduction to Linguistics

LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (18 credits)

18 credits in Linguistics (LING) selected as follows:

9 credits must be at the 400 or 500 level,

3 credits must be selected from the following list, and

6 credits can be chosen according to the student's interests.

Note: If a 400- or 500-level course is chosen from the following list, it may be used toward the 9 credits of 400- or 500-level courses; the remaining 9 credits can then be chosen according to the student's interests.

LING 320	(3)	Sociolinguistics 1
LING 325	(3)	Canadian English
LING 350	(3)	Linguistic Aspects of Bilingualism
LING 355	(3)	Language Acquisition 1
LING 390	(3)	Neuroscience of Language
LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

4.10.31.3 Bachelor of Arts (B.A.) - Joint Honours Component Linguistics (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Joint Honours Thesis, LING 481D1/D2. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (21 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 481D1	(1.5)	Joint Honours Thesis

LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (15 credits)

15 credits in Linguistics (LING) selected as follows:

9 credits must be at the 400 or 500 level, 3 of which must be selected from the following list, and

6 other credits in Linguistics, usually at the 200 or 300 level.

LING 425	(3)	Historical Linguistics
LING 450	(3)	Laboratory Linguistics
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 530	(3)	Acoustic Phonetics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown

4.10.32 Mathematics and Statistics (MATH)

The Department of Mathematics and Statistics, the discipline, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.21: Mathematics and Statistics \(MATH\)](#)*.

4.10.32.1 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Expandable Version: Required Courses (12 credits)

* Note: Credit cannot be received for both MATH 236 and MATH 223 (listed as a required course in the non-expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236*	(3)	Algebra 2

MATH 315 (3) Ordinary Differential Equations

Expandable Version: Complementary Courses (6 credits)

Students selecting the expandable version of this program complete 6 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

Non-Expandable Version: Required Courses (9 credits)

* Note: Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations

Non-Expandable Version: Complementary Courses (9 credits)

Students selecting the non-expandable version of this program complete 9 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

Complementary Course List

* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 340	(3)	Discrete Structures 2
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 407	(3)	Dynamic Programming
MATH 417	(3)	Mathematical Programming
MATH 427	(3)	Statistical Quality Control

4.10.32.2 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (15 credits)

* Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222, MATH 223 and MATH 323 must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the Major Concentration Mathematics).

MATH 222*	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

Complementary Courses (3 credits)

3 credits from:

COMP 202	(3)	Foundations of Programming
MATH 204	(3)	Principles of Statistics 2
MATH 317	(3)	Numerical Analysis
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

4.10.32.3 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering into an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Course Selection

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 328, MATH 340, MATH 407, MATH 417, and take the Minor Concentration Computer Science.

Students interested in probability and statistics should consider either taking the Minor Concentration Statistics under option C, or else including some or all of the courses MATH 423, MATH 447, MATH 523, MATH 524, and MATH 525.

Students interested in applied mathematics should consider the courses MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407 and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, MATH 407, MATH 417, MATH 423, MATH 447, MATH 523, and MATH 525.

Required Courses (21 credits)

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 323	(3)	Probability

Complementary Courses (15 credits)

15 credits selected as follows:

At least 9 credits from:

* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2
MATH 423	(3)	Regression and Analysis of Variance

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics

MATH 525 (4) Sampling Theory and Applications

4.10.32.4 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (15 credits)

MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses

21 credits with at 15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

MATH 325	(3)	Honours Ordinary Differential Equations
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 366	(3)	Honours Complex Analysis
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 380	(3)	Honours Differential Geometry

4.10.33 Middle East Studies (MEST)

Middle East Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.36: Middle East Studies \(MEST\)](#)*.

4.10.33.1 Bachelor of Arts (B.A.) - Minor Concentration Middle East Languages (18 credits)

This program may be expanded to the Major Concentration Middle East Studies.

Complementary Courses (18 credits)

18 credits of Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below), selected as follows:

Either

18 credits (3 levels) in one language, or

12 credits (2 levels) in one language and 6 credits (1 level) in another language.

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

Students who need to take a third level in Turkish should consult the Program Adviser for course options.

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish

ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

4.10.33.2 Bachelor of Arts (B.A.) - Minor Concentration Middle East Studies (18 credits)

This program may be expanded to the Major Concentration Middle East Studies.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the Middle East Studies course lists as follows:

6 credits of "core" courses from the History list

6 credits from the Religion and Philosophy list with at least 3 credits in "core" courses

6 credits from the Social Sciences list

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam

RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

4.10.33.3 Bachelor of Arts (B.A.) - Major Concentration Middle East Studies (36 credits)

Required Courses (3 credits)

MEST 495	(3)	Middle East Studies: Research Seminar

Complementary Courses (33 credits)

33 credits of complementary courses selected from the Middle East Studies course lists as follows:

12 credits (2 levels) in one Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below). In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21 credits (18 if Arabic has been chosen), distributed as follows:

6-9 credits from the History list with at least 6 credits in "core" courses

6-9 credits from the Religion and Philosophy list with at least 6 credits in "core" courses

3-6 credits from the Social Sciences list

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1

ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East

ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology
ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

4.10.33.4 Bachelor of Arts (B.A.) - Joint Honours Component Middle East Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a program GPA of 3.30 in their Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (3 credits)

MEST 495	(3)	Middle East Studies: Research Seminar

Complementary Courses (33 credits)

33 credits of complementary courses selected from the Middle East Studies course lists as follows:

12 credits (2 levels) in one Middle Eastern language - Arabic, Hebrew, Persian, Turkish (lists below). In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21 credits (18 if Arabic has been chosen), distributed as follows:

6-9 credits from the History list with at least 6 credits in "core" courses

6-9 credits from the Religion and Philosophy list with at least 6 credits in "core" courses

3-6 credits from the Social Sciences list

At least 6 of the complementary credits must be at the 400 level or above.

Middle East Languages - Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Middle East Languages - Hebrew

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Studies in Hebrew Language and Literature

Middle East Languages - Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Middle East Languages - Turkish

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

History

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by History (HIST), Islamic Studies (ISLA), or Jewish Studies (JWST).

HIST 240*	(3)	Modern History of Islamic Movements
HIST 339*	(3)	Arab-Israeli Conflict
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
ISLA 350*	(3)	From Tribe to Dynasty
ISLA 355*	(3)	Modern History of the Middle East
ISLA 410*	(3)	History: Middle-East 1798-1918
ISLA 411*	(3)	History: Middle-East 1918-1945
ISLA 511D1*	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2*	(3)	History: Islamic Civilization - Mediaeval Era
JWST 323	(3)	The Israeli Novel
JWST 366	(3)	History of Zionism

Religion and Philosophy

* Note: Core courses are marked by an asterisk ("*") in the list below. Courses in the list may be offered by Islamic Studies (ISLA), Jewish Studies (JWST), Philosophy (PHIL), Philosophy and Western Religions (PHWR), or Religious Studies (RELG).

** Note: RELG 204 and RELG 256 can only be taken for program credit if taken prior to any "core" courses.

ISLA 200*	(3)	Islamic Civilization
ISLA 325*	(3)	Introduction to Shi'i Islam
ISLA 330*	(3)	Islamic Mysticism: Sufism
ISLA 345*	(3)	Science and Civilization in Islam
ISLA 380*	(3)	Islamic Philosophy and Theology

ISLA 383*	(3)	Central Questions in Islamic Law
ISLA 506*	(3)	Islam: Later Developments
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
RELG 204**	(3)	Judaism, Christianity and Islam
RELG 256**	(3)	Women in Judaism and Islam

Social Sciences

Courses in the list may be offered by Anthropology (ANTH), Islamic Studies (ISLA), or Political Science (POLI).

ANTH 340	(3)	Middle Eastern Society and Culture
ISLA 210	(3)	Muslim Societies
ISLA 360	(3)	Islam and Politics
ISLA 385	(3)	Poetics & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 585	(3)	Arab Women's Literature
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 437	(3)	Politics in Israel

Middle East Studies

MEST 495	(3)	Middle East Studies: Research Seminar
MEST 496	(3)	Independent Reading and Research

4.10.34 North American Studies (NAST)

North American Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.38: North American Studies \(NAST\)](#)*.

4.10.34.1 Bachelor of Arts (B.A.) - Minor Concentration North American Studies (18 credits)

This program may be expanded to the Major Concentration North American Studies.

Required Courses (9 credits)

ECON 205	(3)	An Introduction to Political Economy
HIST 211	(3)	American History to 1865
NAST 401	(3)	Interdisciplinary Seminar - North American Studies

Complementary Courses (9 credits)

9 credits to be chosen from at least two departments from the list below:

* Note: Only one of ENGL 225, ENGL 226, or ENGL 227 may be selected.

** Note: It is strongly recommended that students take NAST 201.

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 302	(3)	Money, Banking & Government Policy
ECON 304	(3)	Financial Instruments & Institutions
ECON 311	(3)	United States Economic Development
ENGL 225*	(3)	American Literature 1
ENGL 226*	(3)	American Literature 2
ENGL 227*	(3)	American Literature 3
ENGL 324	(3)	20th Century American Prose
ENGL 326	(3)	19th Century American Prose
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
HIST 221	(3)	United States since 1865
HIST 301	(3)	U.S. Presidential Campaigning
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 322	(3)	Canada: American Presence since 1939
HIST 331	(3)	The United States Between the Wars
HIST 342	(3)	Canada: External Relations since 1867
HIST 351	(3)	Themes in U.S. History since 1865
HIST 360	(3)	Latin America since 1825
HIST 363	(3)	Canada 1870-1914
NAST 201**	(3)	Introduction to North American Studies
NAST 471	(3)	Topics in North American Studies 1
NAST 472	(3)	Topics in North American Studies 2
NAST 490	(3)	Independent Reading & Research
NAST 499	(3)	Arts Internships: North American Studies
POLI 319	(3)	Politics of Latin America
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 342	(3)	Canadian Foreign Policy
POLI 346	(3)	American Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 425	(3)	Topics in American Politics

4.10.34.2 Bachelor of Arts (B.A.) - Major Concentration North American Studies (36 credits)

Required Courses (12 credits)

CANS 200	(3)	Introduction to the Study of Canada
ECON 205	(3)	An Introduction to Political Economy
NAST 201	(3)	Introduction to North American Studies
NAST 401	(3)	Interdisciplinary Seminar - North American Studies

Complementary Courses (24 credits)

24 credits selected as follows:

Communication Studies, Economics, English, History, Political Science

12 credits chosen from at least three disciplines from the list below:

* Note: Only one of ENGL 225, ENGL 226, or ENGL 227 may be selected.

** Note: Prerequisites for POLI 325D1/D2 will be waived for students in the North American Studies program.

COMS 230	(3)	Communication and Democracy
ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ENGL 225*	(3)	American Literature 1
ENGL 226*	(3)	American Literature 2
ENGL 227*	(3)	American Literature 3
HIST 211	(3)	American History to 1865
HIST 221	(3)	United States since 1865
POLI 325D1**	(3)	Government and Politics: United States
POLI 325D2**	(3)	Government and Politics: United States

Group A

6 credits chosen from Group A:

ANTH 338	(3)	Native Peoples of North America
CANS 305	(3)	Canadian Modernity
CANS 306	(3)	Issues in Native Studies
CANS 307	(3)	Canada in the World
ECON 302	(3)	Money, Banking & Government Policy
ECON 304	(3)	Financial Instruments & Institutions
ECON 311	(3)	United States Economic Development
ENGL 324	(3)	20th Century American Prose
ENGL 326	(3)	19th Century American Prose
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
HIST 301	(3)	U.S. Presidential Campaigning
HIST 311	(3)	The Gilded Age and The Progressive Era
HIST 322	(3)	Canada: American Presence since 1939
HIST 331	(3)	The United States Between the Wars
HIST 342	(3)	Canada: External Relations since 1867
HIST 351	(3)	Themes in U.S. History since 1865
HIST 360	(3)	Latin America since 1825
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 371	(3)	American Civil Rights 1877-1940

HIST 377	(3)	The United States, 1940-1965
HIST 392	(3)	The United States since 1965
HIST 393	(3)	Civil War and Reconstruction
JWST 306	(3)	The American Jewish Community
JWST 386	(3)	American Jewish Literature
NAST 471	(3)	Topics in North American Studies 1
NAST 472	(3)	Topics in North American Studies 2
NAST 490	(3)	Independent Reading & Research
NAST 499	(3)	Arts Internships: North American Studies
POLI 319	(3)	Politics of Latin America
POLI 342	(3)	Canadian Foreign Policy
POLI 346	(3)	American Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 425	(3)	Topics in American Politics
SOCI 327	(3)	Jews in North America

Group B

6 credits chosen from Group B:

* Note: From Group B, either ECON 306 or ECON 426 may be taken but not both.

BUSA 364	(3)	Business Law 1
BUSA 368	(3)	Business Law 2
CANS 409	(3)	Canadian Studies Seminar 9
CANS 412	(3)	Canada and Americas Seminar
COMS 300	(3)	Media and Modernity in the 20th Century
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 306*	(3)	Labour Markets and Wages
ECON 308	(3)	Governmental Policy Towards Business
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 426*	(3)	Labour Economics
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ENGL 407	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 418	(3)	A Major Modernist Writer
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 422	(3)	Studies in 19th Century American Literature

ENGL 423	(3)	Studies in 19th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
HISP 301	(3)	Hispanic Literature - English Translation 1
HIST 409	(3)	Themes in Latin American History 2
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 431	(3)	Topics in U.S. History
HIST 434	(3)	British North America 1760-1867
HIST 447	(3)	The Natural History of America
HIST 461D1	(3)	Topics in Modern U.S. History
HIST 461D2	(3)	Topics in Modern U.S. History
HIST 530	(3)	U.S. Foreign Relations
HIST 592D1	(3)	Topics: Canadian Politics
HIST 592D2	(3)	Topics: Canadian Politics
LING 320	(3)	Sociolinguistics 1
MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 452	(3)	Consumer Behaviour
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
SOCI 318	(3)	Television in Society

4.10.35 Philosophy (PHIL)

The Department of Philosophy, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.39: Philosophy \(PHIL\)](#)*.

4.10.35.1 Bachelor of Arts (B.A.) - Minor Concentration Philosophy (18 credits)

Complementary Courses (18 credits)

18 credits, of which no more than 9 credits may be at the 200 level and at least 3 credits must be at the 400 or 500 level, distributed as follows:

15 credits from Groups A, B, C, D, and E with one course from at least four of the five groups.

3 additional credits from Groups A, B, C, D, and E or from other Philosophy (PHIL) courses.

Group A

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 434	(3)	Ethics 2
PHIL 442	(3)	Topics in Feminist Theory

Group B

PHIL 210	(3)	Introduction to Deductive Logic 1

PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group C

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group D

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group E

PHIL 240	(3)	Political Philosophy 1
PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

4.10.35.2 Bachelor of Arts (B.A.) - Major Concentration Philosophy (36 credits)**Required Course (3 credits)**

PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 or PHIL 201 may be included in the program.

Group A

3 credits from:

PHIL 240	(3)	Political Philosophy 1
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science

PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

Group E

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 242	(3)	Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 434	(3)	Ethics 2
PHIL 442	(3)	Topics in Feminist Theory

4.10.35.3 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (9 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 301	(3)	Philosophical Fundamentals

PHIL 334	(3)	Ethical Theory

Complementary Courses (27 credits)

27 credits distributed as follows:

3 credits from:

PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

Group A

6 credits from Group A or Group B.

PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group B

6 credits from Group A or Group B.

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 below.

PHIL 498	(3)	Tutorial 05

4.10.36 Philosophy and Western Religions (PHWR)

Philosophy and Western Religions, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.40: Philosophy and Western Religions \(PHWR\)](#)*.

4.10.36.1 Bachelor of Arts (B.A.) - Minor Concentration Philosophy and Western Religions (18 credits)

NOTE: THE MINOR CONCENTRATION IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

Students will benefit most from this Minor concentration if they combine it with programs in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

Required Course (3 credits)

RELG 307	(3)	Bible, Quran & Interpretations

Complementary Courses (15 credits)

15 credits selected as follows:

Students must complete 6 credits from the course lists for any two of the three categories below and 3 credits from the course list for the remaining category:

Philosophy and Western Religions

History of Philosophy

Jewish, Christian, and Islamic Thought

Philosophy and Western Religions

3-6 credits from:

Note: Students are strongly encouraged to take both PHWR 300 and PHWR 301.

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2

History of Philosophy

3-6 credits, at least one of the following:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Students completing 6 credits in the History of Philosophy category, may select 3 credits from the following:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 360	(3)	17th Century Philosophy
PHIL 452	(3)	Later Greek Philosophy

Jewish and Christian Thought

3-6 credits from:

JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

4.10.36.2 Bachelor of Arts (B.A.) - Major Concentration Philosophy and Western Religions (36 credits)

NOTE: THE MAJOR CONCENTRATION IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

The Major Concentration Philosophy and Western Religions has an option without a language requirement (Stream A), and one with a language requirement (Stream B). The latter was designed for students who wish to acquire the linguistic skills allowing them to read and research source texts in the original languages. Students will benefit most from the Major concentration if they combine it with a program in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

Students are strongly encouraged to consult an adviser each year to devise a suitable course combination.

Required Course (3 credits)

RELG 307	(3)	Bible, Quran & Interpretations

Complementary Courses (33 credits)

33 credits selected as follows:

24-30 credits from Stream A (without a language requirement) or Stream B (with a language requirement) as specified under "Stream Requirements" and

3-9 credits of Philosophy and Western Religions (PHWR) courses from:

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

Students are strongly encouraged to take both PHWR 300 and PHWR 301.

Stream Requirements

Stream A: 24-30 credits selected as follows:

9-12 credits from the History of Philosophy course list.

3-6 credits from the Scriptures and History of Western Religious Traditions course list.

9-12 credits from the Jewish, Christian, and Islamic Thought course list.

Stream B: 24-30 credits selected as follows:

6-9 credits from the History of Philosophy course list.

0-3 credits from the Scriptures and History of Western Religious Traditions course list.

6-9 credits from the Jewish, Christian, and Islamic Thought course list.

12-15 credits from the Languages (Arabic, Greek, Hebrew, or Latin) course list.

Stream A and B - History of Philosophy

Stream A: Students take 9-12 credits from the History of Philosophy course list below.

Stream B: Students take 6-9 credits from the History of Philosophy course list below.

At least one of:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

At least one of:

PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy

Remaining credits, if any, from:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy

Stream A and B - Scriptures and History of the Western Religious Traditions

Stream A: Students take 3-6 credits from the Scriptures and History of the Western Religious Traditions course list below.

Stream B: Students take 0-3 credits from the Scriptures and History of the Western Religious Traditions course list below.

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 320	(3)	Scripture and Catholicism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000

ISLA 506	(3)	Islam: Later Developments
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 310	(3)	Believers, Heretics and Critics
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 523	(3)	Ancient Bible Interpretation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 539	(3)	Biblical Interpretation 1
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 575	(3)	Topics in Parshanut
RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Stream A and B - Jewish and Christian Thought

Stream A: Students take 9-12 credits from the Jewish and Christian course list below with a maximum of 6 credits selected from any one group.

Stream B: Students take 6-9 credits from the Jewish and Christian Thought course list below with a maximum of 6 credits selected from any one group.

Jewish Studies (JWST)

JWST 261	(3)	History of Jewish Philosophy & Thought

JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Religious Studies (RELG)

RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Stream B - Languages

Stream B (only): Students take 12-15 credits (two years: 12 credits, or in the case of Arabic, 15 credits) in one language (Arabic, Greek, Hebrew, or Latin) from the list below.

Arabic, ISLA courses:

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

Greek, CLAS and RELG courses:

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek

Hebrew, JWST and RELG courses:

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew

JWST 320D2	(3)	Intermediate Hebrew
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew

Latin, CLAS courses:

CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 316	(3)	Intermediate Latin: Medieval

4.10.36.3 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy and Western Religions (36 credits)

NOTE: THE JOINT HONOURS COMPONENT IN PHILOSOPHY AND WESTERN RELIGIONS IS NOT AVAILABLE FOR THE 2013-2014 ACADEMIC YEAR.

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection.

The Joint Honours Component Philosophy and Western Religions was designed for students who wish (i) to explore the intertwined intellectual worlds of Judaism, Christianity, and Islam, and the interaction between philosophy and religion from Antiquity to the Enlightenment and (ii) to acquire the linguistic and conceptual tools allowing them to read source texts in the original languages, and to conduct research in the areas investigated by the interdisciplinary program. Students will benefit most from the Joint Honours if they combine it with a program in Philosophy, Islamic Studies, Jewish Studies, Religious Studies, or Classics. Students are also encouraged to complete a minor concentration in one of the languages relevant to the academic field.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Students are strongly encouraged to consult an adviser each year to devise a suitable course combination.

Required Course (3 credits)

RELG 307	(3)	Bible, Quran & Interpretations

Complementary Courses (33 credits)

33 credits selected as follows:

Philosophy and Western Religions (PHWR)

3-9 credits of Philosophy and Western Religions (PHWR) courses from:

PHWR 300	(3)	Philosophy & Western Religions 1
PHWR 301	(3)	Philosophy & Western Religions 2
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

Students are strongly encouraged to take both PHWR 300 and PHWR 301.

History of Philosophy

3-6 credits from the History of Philosophy course list below.

At least one of:

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle

Remaining credits, if any, from:

CLAS 415	(3)	Advanced Latin: Oratory
CLAS 426	(3)	Advanced Greek: Philosophy
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy

Scriptures and History of the Western Religious Traditions

0-3 credits from the Scriptures and History of the Western Religious Traditions course list below.

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 320	(3)	Scripture and Catholicism
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 506	(3)	Islam: Later Developments
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 310	(3)	Believers, Heretics and Critics
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 523	(3)	Ancient Bible Interpretation
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 539	(3)	Biblical Interpretation 1
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 575	(3)	Topics in Parshanut
RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604

RELG 330	(3)	Reformed Theology
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Jewish and Christian Thought

6 credits from the Jewish and Christian Thought course list below.

Jewish Studies (JWST)

JWST 261	(3)	History of Jewish Philosophy & Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Religious Studies (RELG)

RELG 334	(3)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 423	(3)	Reformation Thought
RELG 439	(3)	Religious Dialogues
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Languages

12-15 credits (two years: 12 credits, or in the case of Arabic, 15 credits) in one language (Arabic, Greek, Hebrew, or Latin) selected from the language course lists below.

Arabic, ISLA courses:

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic

Greek, CLAS and RELG courses:

CLAS 220D1	(3)	Introductory Ancient Greek
CLAS 220D2	(3)	Introductory Ancient Greek
CLAS 321	(3)	Intermediate Greek: Plato/Xenophon
CLAS 322	(3)	Intermediate Greek: Orators
CLAS 323	(3)	Intermediate Greek: Homer
CLAS 324	(3)	Intermediate Greek: Poetry
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek

Hebrew, JWST and RELG courses:

JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew

Latin, CLAS courses:

CLAS 210D1	(3)	Introductory Latin 1
CLAS 210D2	(3)	Introductory Latin 1
CLAS 312	(3)	Intermediate Latin: Poetry
CLAS 314	(3)	Intermediate Latin: Historians
CLAS 315	(3)	Intermediate Latin: Selections
CLAS 316	(3)	Intermediate Latin: Medieval

Specialized Research Skills

3 credits of courses in specialized skills for conducting research, chosen from:

PHWR 400	(3)	Joint Honours/Honours Tutorial
PHWR 500D1	(1.5)	Interdisciplinary Seminar
PHWR 500D2	(1.5)	Interdisciplinary Seminar

4.10.37 Physics (PHYS)

The Department of Physics, the discipline, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.29: Physics \(PHYS\)](#)*.

4.10.37.1 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

PHYS 257	(3)	Experimental Methods 1

Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

4.10.37.2 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Physics (36 credits)

The Major Concentration Physics, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline. This program is insufficient to prepare a student for professional or graduate work in physics; students interested in pursuing a career in physics are advised to take the appropriate B.Sc. program in physics.

Required Courses* (30 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves

PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses (6 credits)

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 334	(3)	Advanced Materials
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

4.10.38 Political Science (POLI)

The Department of Political Science, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.41: Political Science \(POLI\)](#)*.

4.10.38.1 Bachelor of Arts (B.A.) - Minor Concentration Comparative Politics (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Course (3 credits)

POLI 211	(3)	Comparative Government and Politics

Complementary Courses (15 credits)

15 credits

3 credits from:

POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction

12 credits from:

POLI 315	(3)	Approaches to Political Economy
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 338	(3)	Developing Areas/Topics 1

POLI 339	(3)	Comparative Developed: Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 369	(3)	Politics of Southeast Asia
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 435	(3)	Identity and Inequality
POLI 437	(3)	Politics in Israel
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 474	(3)	Inequality and Development
POLI 475	(3)	Social Capital in Comparative Perspective

4.10.38.2 Bachelor of Arts (B.A.) - Minor Concentration International Relations (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (6 credits)

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour

Complementary Courses (12 credits)

12 credits selected as follows:

Thematic Courses

6 credits must be from Thematic courses:

POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations

POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union

Regional Courses

Remaining credits may also be from Regional courses:

POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 346	(3)	American Foreign Policy
POLI 349	(3)	Foreign Policy: Asia
POLI 352	(3)	International Policy/Foreign Policy: Africa

4.10.38.3 Bachelor of Arts (B.A.) - Minor Concentration Political Economy (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from introductory political science courses:

POLI 211	(3)	Comparative Government and Politics
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations

3 credits from introductory economics courses:

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications

Note: Students who take or have taken ECON 230D1/D2 or ECON 250D1/D2 are deemed to have fulfilled the economics requirement. However, the 3 complementary economics credits must be replaced with an additional political science course from the list below.

12 credits from:

POLI 243	(3)	International Politics of Economic Relations
POLI 315	(3)	Approaches to Political Economy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 354	(3)	Approaches to International Political Economy
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 451	(3)	The European Union

4.10.38.4 Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)

This program may be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits selected as follows:

6-9 credits at the 200 level from at least two of four fields:

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise

Comparative Politics

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

9-12 credits above the 200 level from at least two of four fields:

Canadian Politics

POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution

Comparative Politics (Developed and Developing)

POLI 315	(3)	Approaches to Political Economy

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 338	(3)	Developing Areas/Topics 1
POLI 339	(3)	Comparative Developed: Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 369	(3)	Politics of Southeast Asia
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 435	(3)	Identity and Inequality
POLI 437	(3)	Politics in Israel
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 474	(3)	Inequality and Development
POLI 475	(3)	Social Capital in Comparative Perspective

International Relations

POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1

POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union

Political Theory

POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2

Other political sciences courses may be used to satisfy this Minor concentration subject to approval.

4.10.38.5 Bachelor of Arts (B.A.) - Minor Concentration Political Science: Canada/Québec (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Complementary Courses (18 credits)

18 credits of complementary courses selected with the specifications described below.

* Note: Courses marked with an asterisk ("*") are on Québec.

6 credits at the introductory level from:

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226*	(3)	La vie politique québécoise

12 credits, of which 3 credits must be on Québec; no more than 6 credits may be taken in courses outside the Department of Political Science (courses with a subject code other than "POLI"); and no more than 6 credits may be taken at the 200 level from:

ANTH 306	(3)	Native Peoples' History in Canada
CANS 200	(3)	Introduction to the Study of Canada
CANS 304*	(3)	Nationalism in Canada
CANS 413*	(3)	Canada and Quebec Seminar
ECON 308	(3)	Governmental Policy Towards Business

FREN 329*	(3)	Civilisation québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 300	(3)	Nationalisms in Canada
HIST 303*	(3)	History of Quebec
HIST 322	(3)	Canada: American Presence since 1939
HIST 333*	(3)	Natives and French
HIST 334*	(3)	History of New France
HIST 353*	(3)	History of Montreal
HIST 357	(3)	Religion and Canadian Society in Historical Perspective
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 370	(3)	Canadian Party Politics 1867-2000
HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403*	(3)	History of Quebec Institutions
POLI 226*	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336*	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 426*	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution

4.10.38.6 Bachelor of Arts (B.A.) - Minor Concentration Political Theory (18 credits)

This program offers a specialization in the subfield of political theory and allows students the opportunity to draw on closely-related courses in moral and political philosophy offered by the Department of Philosophy. Students who have completed the appropriate introductory work in the disciplines of classics, economics, history, or sociology may take specified courses in these disciplines toward the program requirements.

Complementary Courses (18 credits)

18 credits selected as follows:

Category A

9 credits from Category A.

3 credits at the introductory level from:

PHIL 240	(3)	Political Philosophy 1
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought

At least 6 credits selected from:

POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4

Category B

9 credits from Category B.

Note: A course can only be used once in the program; a course used toward Category A may not also be used toward Category B.

CLAS 416	(3)	Advanced Latin: Philosophy
CLAS 426	(3)	Advanced Greek: Philosophy
ECON 334	(3)	History of Economic Doctrines
HIST 320	(3)	European Thought and Culture 1
HIST 321	(3)	European Thought and Culture 2
PHIL 334	(3)	Ethical Theory
PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 348	(3)	Philosophy of Law 1
PHIL 442	(3)	Topics in Feminist Theory
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory
PHIL 454	(3)	Ancient Moral Theory
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
SOCI 330	(3)	Sociological Theory

4.10.38.7 Bachelor of Arts (B.A.) - Minor Concentration Politics, Law and Society (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (3 credits)

POLI 211	(3)	Comparative Government and Politics

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada

3 credits from:

POLI 330	(3)	Law and Courts in Europe
POLI 378	(3)	The Canadian Judicial Process

9 credits selected from the courses below with at least 6 credits from non-political science courses (subject code other than "POLI"), not more than 3 credits from communication studies ("COMS") courses, and no more than 3 credits at the 200 level:

ANTH 222	(3)	Legal Anthropology
COMS 355	(3)	Media Governance
COMS 435	(3)	Advanced Issues in Media Governance
ISLA 383	(3)	Central Questions in Islamic Law
JWST 201	(3)	Jewish Law
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
PHIL 348	(3)	Philosophy of Law 1
POLI 321	(3)	Issues: Canadian Public Policy
POLI 330	(3)	Law and Courts in Europe
POLI 337	(3)	Canadian Public Administration
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada
POLI 478	(3)	The Canadian Constitution
PRV2 500*	(3)	Children and the Law
SOCI 388	(3)	Crime
SOCI 488	(3)	Punishment and Prisons

* Note: To register for the course offered by the Faculty of Law, PRV2 500, a student must apply to the Faculty of Law as a Special Student and provide the following: a curriculum vitae, a copy of his/her academic record, and the reason for wanting to take the course.

4.10.38.8 Bachelor of Arts (B.A.) - Minor Concentration South Asia (18 credits)

This program may not be expanded to the Major Concentration Political Science.

Required Courses (6 credits)

POLI 227	(3)	Developing Areas/Introduction
POLI 322	(3)	Political Change in South Asia

Complementary Courses (12 credits)

12 credits selected as follows:

3-6 credits from:

ANTH 327	(3)	Peoples of South Asia
RELG 252	(3)	Hinduism and Buddhism
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 454	(3)	Modern Hindu Thought

6-9 credits from:

ANTH 212	(3)	Anthropology of Development
ANTH 327	(3)	Peoples of South Asia
ISLA 506	(3)	Islam: Later Developments
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 371	(3)	Ethics of Violence/Non-Violence
SOCI 254	(3)	Development and Underdevelopment

4.10.38.9 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 15 of the 36 credits may be at the 200 level.

In the final year, no course used toward the program requirements may be below the 300 level.

Only one 500-level Political Science Honours Seminar may be taken and only in the final year.

Course lists for each field of political science are provided below.

Advising Information

In the first year of the program (U1), students are advised to select 12-15 credits from at least three of the four main fields of political science. U1 students should normally take courses at the 200 level only. However, those in their second term of U1 may, with the approval of their program adviser, take one 300-level course provided that they have a B+ average in their first term courses and have completed the 200-level prerequisite for the course.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism

POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 437	(3)	Politics in Israel
POLI 451	(3)	The European Union
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 524	(3)	Seminar: Developed Areas

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia

POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory

POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 561	(3)	Seminar: Political Theory

4.10.38.10 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year. At graduation, students' Joint Honours standing will be determined by their overall record in the Joint Honours program. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Students may enter the Joint Honours program in U1.

Required Course (3 credits)

POLI 311 is required except for those students whose other Joint Honours component is either Economics or Sociology. These students may be authorized by the Department to take an equivalent social science methods course in Economics or Sociology. If so, they must take 3 credits in Political Theory. Refer to the Political Theory course list below for appropriate courses.

POLI 311	(3)	Techniques of Empirical Research

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications.

No more than one-half (18 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, Political Theory). However, if the field is Comparative Politics and if courses are taken in both Developed Areas and Developing Areas, the maximum is 21 credits. Refer to the lists below for course choices in each field.

One quarter (9 credits) of political science credits must be at the 400-level or above including one 500-level Honours Seminar or one 600-level Graduate Seminar. This one-quarter rule may be satisfied by taking a 500-level Honours Seminar and a 600-level Graduate Seminar. Refer to the lists below for course choices at the 400 and 500 levels in each field. Consult the Department website (<http://www.mcgill.ca/politicalscience/courses/graduate/>) for 600-level course choices.

No more than 15 credits of political science may be at the 200 level. Students may not take 200-level political science courses in their final year.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada

POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Aboriginal Politics in Canada
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 325D1	(3)	Government and Politics: United States
POLI 325D2	(3)	Government and Politics: United States
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 411	(3)	Immigration and Multiculturalism in Canada
POLI 414	(3)	Society and Politics in Italy
POLI 419	(3)	Transitions from Communism
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 437	(3)	Politics in Israel
POLI 451	(3)	The European Union
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 524	(3)	Seminar: Developed Areas

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 440	(3)	Civil-Military Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 575	(3)	Seminar: International Politics

Political Theory

* Note: Courses marked with an asterisk ("*") in the list below may be used to complete the 3 credits of Political Theory by those students exempted from POLI 311.

POLI 231*	(3)	Introduction to Political Theory
POLI 232*	(3)	Modern Political Thought

POLI 333*	(3)	Western Political Theory 1
POLI 334*	(3)	Western Political Theory 2
POLI 362*	(3)	Political Theory and International Relations
POLI 363*	(3)	Contemporary Political Theory
POLI 364*	(3)	Radical Political Thought
POLI 365*	(3)	Democratic Theory
POLI 366*	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433*	(3)	History of Political/Social Theory 3
POLI 434*	(3)	History of Political/Social Theory 4
POLI 459*	(3)	Topics in Political Theory 2
POLI 561*	(3)	Seminar: Political Theory

4.10.39 Psychology (PSYC)

The Department of Psychology, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.32: Psychology \(PSYC\)](#)*.

4.10.39.1 Bachelor of Arts (B.A.) - Minor Concentration Psychology (18 credits)

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This Minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.

Required Background

Students are required to complete a course in Introductory Psychology either at the collegial or freshman level. Students who have not previously completed CEGEP Psychology 350-101 or 350-102 or equivalent are required to complete PSYC 100 during the first year of study at McGill.

Program Prerequisite

PSYC 100	(3)	Introduction to Psychology

Complementary Courses (18 credits)

6 credits selected from:

PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

12 credits in Psychology at the 300 level or above.

4.10.39.2 Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)

The Major Concentration Psychology does not provide sufficient undergraduate background to enable students to apply for membership in the Ordre des Psychologues du Québec, even once the additional graduate requirements of the Ordre have been completed. Students who are interested in practising psychology in Quebec are advised to also complete the Minor Concentration Behavioral Science.

Recommended Background for Quebec CEGEP Students

Students planning to apply to a Bachelor of Arts degree with a Major Concentration Psychology or a Bachelor of Arts and Science degree with a Major Concentration Psychology are advised to take courses in Introductory Psychology and Human Biology at the collegial level.

Program Prerequisites

Students planning to enter the Major Concentration Psychology program are required to complete courses in Introductory Psychology and Human Biology at the collegial level or in their first year of study at McGill University.

Students who have completed 350-101 or 350-102 in CEGEP are exempt from the PSYC 100 requirement.

Bachelor of Arts students are required to complete BIOL 115 or BIOL 111 or BIOL 112 during their first year. Students who have completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP are exempt from the Biology requirement.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students exempt from PSYC 204 replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

Bachelor of Arts and Science students exempt from PSYC 204 replace this course with 3 credits in Psychology (PSYC) at the 300 level or above.

PSYC 204*	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

** Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above apart from PSYC 305 in their U1 year to be eligible for admission. Students who have been exempted from PSYC 204 are advised to complete PSYC 305 in U1. All students must complete a minimum of 27 graded credits in U1 to be eligible for admission to the Honours program. For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

12 credits in Psychology with at least 6 credits at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism

PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems

PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 493	(3)	Special Topics Seminar 2
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

4.10.39.3 Bachelor of Arts (B.A.) - Joint Honours Component Psychology (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students should note that awarding of the Joint Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 482. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in the required honours courses (i.e: PSYC 380D1/D2, PSYC 482). "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in the required honours courses.

In addition to the requirements of the Joint Honours Component Psychology, students must also complete all requirements of their other Joint Honours component.

Admission to the Joint Honours component is selective. Students with a cumulative grade point average of 3.00 or higher are eligible to apply; however, normally only students with a U1 GPA above 3.50 are admitted. Students must complete a minimum of 27 graded credits in two terms in their U1 year to be eligible to apply. Once in the Joint Honours component, students must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Students in the Joint Honours component are encouraged to complete a minimum of 27 graded credits per academic year. This is also the minimum number of credits required to be eligible for fellowships and awards.

Students may apply to the Joint Honours component upon completion of the U1 year. Eligible students must have completed the following Psychology courses: PSYC 204, PSYC 211, PSYC 212, PSYC 213 and PSYC 215. Students are advised to complete PSYC 305 in their U1 year.

Applications can be obtained from the Undergraduate Office of the Department of Psychology, Room N7/9A, Stewart Biological Sciences Building. The applications must be completed and returned to the Undergraduate Office by August 1 for September admission. Candidates will be informed of the Department's decision via email before classes begin in September.

Program Prerequisites

Students planning on entering the Joint Honours Component Psychology program are required to complete Introductory Psychology; a course in Human Biology is strongly recommended.

Students who have not previously completed Psychology 350-101 or 350-102 in CEGEP are required to register for PSYC 100 during their U1 year.

Bachelor of Arts students who have not completed one of Biology 101-301, 101-401, 101-911 or 101-921 in CEGEP should complete one of BIOL 115, BIOL 111 or BIOL 112 during their U1 year. Students who enter as Freshmen may take these courses in U0.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

U1 Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students will replace this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING) or Sociology (SOCI).

Bachelor of Arts and Science students will replace this requirement with 3 credits in Psychology at the 300-level or above.

** Note: PSYC 305 may be taken in U1 or U2.

PSYC 204*	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

U2 Required Courses (9 credits)

PSYC 380D1	(4.5)	Honours Research Project Seminar
PSYC 380D2	(4.5)	Honours Research Project Seminar

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar

Complementary Courses (6 credits)

3 credits in Psychology at the 300 level or above, and

3 credits in Psychology at the 400 or 500 level.

4.10.40 Quebec Studies/Études sur le Québec (QCST)

Quebec Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.43: Quebec Studies/Études sur le Québec \(QCST\)](#)*.

4.10.40.1 Bachelor of Arts (B.A.) - Minor Concentration Quebec Studies / La concentration Mineur en Études sur le Québec (18 credits)

La concentration Mineur en Études sur le Québec a pour but de donner à l'étudiant(e) une connaissance multidisciplinaire des réalités du Québec en complémentarité à sa propre discipline de spécialisation. Les étudiants poursuivant notamment une spécialisation en histoire, science politique, langue et littérature françaises ou en études canadiennes peuvent trouver dans cette formation plusieurs avantages.

La concentration Mineur en Études sur le Québec est convertible en concentration majeure.

The goal of the Minor Concentration Quebec Studies is to give students a multidisciplinary overview of Quebec realities. Students are encouraged to complete this program alongside their studies in History, Political Science, French Language and Literature, or Canadian Studies.

The Minor Concentration Quebec Studies may be expanded to the Major concentration.

Required Courses / Cours Obligatoires (6 credits)

De façon usuelle, les cours obligatoires (6 crédits) sont complétés selon la séquence suivante : QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 ou en U3. Les cours complémentaires (12 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (6 credits) are completed in the following order: QCST 300 (3 credits) in U1 and QCST 440 (3 credits) in U2 or in U3. The complementary courses (12 credits) can be completed in U1, U2, or U3.

QCST 300	(3)	Quebec Culture and Society
QCST 440	(3)	Contemporary Issues in Quebec

Complementary Courses / Cours Complémentaires (12 credits)

De ces 12 crédits, 6 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 6 des 12 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 12 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 12 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
POLI 226	(3)	La vie politique québécoise
POLI 336	(3)	Le Québec et le Canada

Complementary Course Lists / Listes des cours complémentaires

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples

Art History and Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy

Canadian Studies / Études sur le Canada

CANS 200	(3)	Introduction to the Study of Canada
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Issues in Native Studies
CANS 405	(3)	Canadian Studies Seminar 5

English / Anglais

ENGL 313	(3)	Canadian Drama and Theatre

Environment

ENVR 380	(3)	Topics in Environment 1

French Language and Literature / Langue et littérature françaises

FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 450	(3)	Thème de littérature québécoise
FREN 595	(3)	Séminaire avancé lettres françaises

History / Histoire

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 223	(3)	Natives of the Americas
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 335	(3)	Science and Medicine in Canada
HIST 353	(3)	History of Montreal
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 580D1	(3)	European and Native-American Encounters

Political Science / Science politique

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 342	(3)	Canadian Foreign Policy
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada

Sociology / Sociologie

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.40.2 Bachelor of Arts (B.A.) - Major Concentration Quebec Studies / La concentration Majeur en Études sur le Québec (36 credits)

La concentration Majeur en Études sur le Québec a pour but de donner à l'étudiant(e) une connaissance approfondie et multidisciplinaire des réalités du Québec. Les étudiants peuvent intégrer cette spécialisation en complémentarité avec plusieurs disciplines dont l'histoire, la science politique, la langue et littérature françaises ou les études canadiennes.

The goal of the Major Concentration Quebec Studies is to give students a comprehensive, multidisciplinary, and in-depth portrait of Quebec realities. Students are encouraged to complete this program by integrating it with disciplines such as History, Political Science, French Language and Literature, or Canadian Studies.

Required Courses / Cours Obligatoires (12 credits)

De façon usuelle, les cours obligatoires (12 crédits) sont complétés selon la séquence suivante : QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 et QCST 472D1/D2 (6 crédits) en U3. Les cours complémentaires (24 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (12 credits) are completed in the following order: QCST 300 (3 credits) in U1, QCST 440 (3 credits) in U2, and QCST 472D1/D2 (6 credits) in U3. The complementary courses (24 credits) can be completed in U1, U2, or U3.

QCST 300	(3)	Quebec Culture and Society
QCST 440	(3)	Contemporary Issues in Quebec
QCST 472D1	(3)	Tutorial/Travaux dirigés
QCST 472D2	(3)	Tutorial/Travaux dirigés

Complementary Courses / Cours Complémentaires (24 credits)

De ces 24 crédits, 12 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 12 des 24 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 24 credits, 12 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 12 of the 24 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
HIST 353	(3)	History of Montreal
POLI 226	(3)	La vie politique québécoise

Complementary Course Lists / Listes des cours complémentaires

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples

Canadian Studies / Études sur le Canada

CANS 200	(3)	Introduction to the Study of Canada
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Issues in Native Studies
CANS 405	(3)	Canadian Studies Seminar 5

English / Anglais

ENGL 313	(3)	Canadian Drama and Theatre

French Language and Literature / Langue et littérature françaises

FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 450	(3)	Thème de littérature québécoise

FREN 595	(3)	Séminaire avancé lettres françaises

History / Histoire

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 223	(3)	Natives of the Americas
HIST 322	(3)	Canada: American Presence since 1939
HIST 333	(3)	Natives and French
HIST 335	(3)	Science and Medicine in Canada
HIST 353	(3)	History of Montreal
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
HIST 580D1	(3)	European and Native-American Encounters

Political Science / Science politique

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 342	(3)	Canadian Foreign Policy
POLI 378	(3)	The Canadian Judicial Process
POLI 417	(3)	Health Care in Canada

Sociology / Sociologie

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.41 Religious Studies (RELG)

Religious Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.44: Religious Studies \(RELG\)](#)*.

4.10.41.1 Bachelor of Arts (B.A.) - Minor Concentration Scriptural Languages (18 credits)

The Minor Concentration Scriptural Languages is designed to provide students with the skills necessary to read scriptural sources in their original languages. This Minor concentration is recommended to be followed in conjunction with the Major Concentration Scriptures and Interpretations.

This program may not be expanded to one of the major concentrations offered in Religious Studies.

Students will choose from one of two streams:

Stream I: Biblical Languages

Stream II: Indo-Tibetan Languages

Stream I - Biblical Languages

18 credits chosen from among courses on Biblical Hebrew and Biblical Greek.

Biblical Hebrew

* Note: Students with advanced standing in Hebrew may take Aramaic as part of their program.

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
RELG 390D1*	(3)	Elementary Biblical Hebrew
RELG 390D2*	(3)	Elementary Biblical Hebrew
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts

Biblical Greek

RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek
RELG 482	(3)	Exegesis of Greek New Testament
RELG 583	(3)	Hellenistic Religious Texts

Stream II - Indo-Tibetan Languages

Sanskrit is the language of classical Indian civilization and is recommended for students interested in gaining access to religious texts, philosophical works, academic treatises on all subjects, and poetry written in classical and medieval India.

Classical Tibetan is one of the main scriptural languages of Buddhism. Many texts originally composed in Sanskrit are only extant in their Tibetan translations, and a vast body of philosophical, devotional, poetic and academic works composed in Classical Tibetan is only accessible to one who has a firm grasp of the language.

Tamil is a language spoken by over 75,000,000 people around the world. It is an ancient South Indian language that, unlike Sanskrit, has a vital, living tradition. It has a classical literary canon and yet is also part of the everyday lives of millions of people.

18 credits chosen from among courses on Sanskrit, Tibetan, and Tamil.

Sanskrit

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2

Tibetan

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

Tamil

RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2

4.10.41.2 Bachelor of Arts (B.A.) - Minor Concentration World Religions (18 credits)

The Minor Concentration World Religions introduces students to the major world religions and to the academic study of religion.

This program may be expanded to the Major Concentration World Religions.

Complementary Courses (18 credits)

18 credits, no more than 12 of which may be taken at the 200-level, selected with the following specifications:

12 credits in Religious Traditions chosen from the course lists on "Judaism and Christianity" and/or "Hinduism and Buddhism."

6 credits from the course list on "Comparative Studies."

Judaism and Christianity

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 330	(3)	Reformed Theology
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Topics in Christian Ethics
RELG 379	(3)	Eastern Orthodox Christianity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Hinduism and Buddhism

RELG 252	(3)	Hinduism and Buddhism

RELG 253	(3)	Religions of East Asia
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 556	(3)	Issues in Buddhist Studies
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

Comparative Studies

RELG 207	(3)	The Study of World Religions 1
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2

RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics
RELG 555	(3)	Honours Seminar
RELG 571	(3)	Religion and Medicine

4.10.41.3 Bachelor of Arts (B.A.) - Major Concentration Scriptures and Interpretations (36 credits)

The Major Concentration Scriptures and Interpretations is designed for students interested in understanding scriptural literatures and their place in developing religious traditions. While students will be able to concentrate in the area of their choice (Jewish, Christian, or Hindu and Buddhist Scriptures and Interpretations), they will study scriptures of at least two religious traditions, either in English translation or, if their skills permit, in the original languages.

Required Courses (6 credits)

RELG 307	(3)	Bible, Quran & Interpretations
RELG 456	(3)	Theories of Religion

Complementary Courses (30 credits)

30 credits with a minimum of 18 credits selected from one area of specialization and a minimum of 6 credits from a second area.

Areas of Specialization:

- (a) Jewish Scriptures and the History of Their Interpretation
- (b) Christian Scriptures and the History of Their Interpretation
- (c) Hindu and Buddhist Scriptures and the Histories of Their Interpretations

No more than 12 credits may be taken at the 200 level.

(a) Jewish Scriptures and the History of Their Interpretation

JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 308	(3)	Ancient Bible Translations
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 491	(3)	Hebrew Texts

RELG 492	(3)	Hebrew Texts
RELG 502	(3)	Greco-Roman Judaism

(b) Christian Scriptures and the History of Their Interpretation

RELG 203	(3)	Bible and Western Culture
RELG 210	(3)	Jesus of Nazareth
RELG 280	(6)	Elementary New Testament Greek
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 308	(3)	Ancient Bible Translations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 381	(3)	Advanced New Testament Greek
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament
RELG 583	(3)	Hellenistic Religious Texts

(c) Hindu and Buddhist Scriptures and the Histories of Their Interpretations

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2
RELG 337	(3)	Themes in Buddhist Studies
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2

RELG 369	(3)	Tibetan Buddhism
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 548	(3)	Indian Buddhist Philosophy
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 560	(3)	Buddhist Poetry

4.10.41.4 Bachelor of Arts (B.A.) - Major Concentration World Religions (36 credits)

The Major Concentration World Religions offers students a broad introduction to the study of the world's major religions, with the possibility for concentration in a student's specific areas of interest. Developing an understanding of methods and problems in comparative approaches to the academic study of religion will be encouraged.

Required Course (3 credits)

RELG 456	(3)	Theories of Religion

Complementary Courses (33 credits)

33 credits, no more than 12 of which may be taken at the 200 level, selected with the following specifications:

24 credits in World Religions chosen from the course lists on "Judaism and Christianity" and/or "Hinduism and Buddhism" according to the student's area of interest.

9 credits from the course list on "Comparative Studies" according to the student's area of interest.

Judaism and Christianity

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2

RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Topics in Christian Ethics
RELG 379	(3)	Eastern Orthodox Christianity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Hinduism and Buddhism

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen: Maxims and Methods
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 545	(3)	Ramayana: Multiple Lives

RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South India 2
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

Comparative Studies

RELG 207	(3)	The Study of World Religions 1
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 343	(3)	Topics: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 555	(3)	Honours Seminar
RELG 571	(3)	Religion and Medicine

4.10.41.5 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Asian Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3 credits from Introductory Courses

3 credits from Advanced Courses

9 credits from Two Groups (Asian Religious Traditions, History and Philosophy) with at least 3 credits from each group

6 credits in Religion and Culture courses

15 credits, selected in consultation with an adviser, from Religious Studies (RELG) courses (or Approved Related Courses in Other Departments) at the 300 level or above, of which 9 credits must be at the 400 level or above.

Introductory Courses

3 credits from:

RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam

Advanced Courses

3 credits from:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Two Groups

9 credits selected from two groups with at least 3 credits from each group:

Asian Religious Traditions

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Sikhism
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions

History and Philosophy

RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 369	(3)	Tibetan Buddhism

Religion and Culture

6 credits from:

RELG 270	(3)	Religious Ethics and the Environment

RELG 271	(3)	Sexual Ethics
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 353	(3)	Gandhi: His Life and Thought
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 375	(3)	Religion, Politics and Society
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives

Religious Studies (RELG)

15 credits, selected in consultation with the Program Adviser, from Religious Studies (RELG) courses at the 300 level or above, of which 9 credits must be at the 400 level or above.

A maximum of 6 credits from other departments may be used toward this requirement (see list below).

Approved Related Courses in Other Departments

The list below is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

4.10.41.6 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Western Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3 credits from Introductory Courses

3 credits from Advanced Courses

9 credits from Two Groups (Sources of Western Religious Traditions, History and Theology of the Christian Tradition) with at least 3 credits from each group

6 credits in Religion and Culture courses

15 credits, selected in consultation with an adviser, from Religious Studies (RELG) courses (or Approved Related Courses in Other Departments) at the 300-level or above, of which 9 credits must be at the 400-level or above

Introductory Courses

3 credits from:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

Advanced Courses

3 credits from:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Two Groups

9 credits selected from two groups with at least 3 credits from each group:

Sources of Western Religious Traditions

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

History and Theology of the Christian Tradition

RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Ancient Christian Church AD54 - AD604
RELG 334	(3)	Christian Thought and Culture
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

Religion and Culture

6 credits from:

RELG 256	(3)	Women in Judaism and Islam
RELG 271	(3)	Sexual Ethics
RELG 338	(3)	Women and the Christian Tradition
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 347	(3)	Topics in Religion and the Arts
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(3)	Religious Controversies

Religious Studies (RELG)

15 credits, selected in consultation with the program adviser, from Religious Studies (RELG) courses at the 300 level or above, of which 9 credits must be at the 400 level or above.

A maximum of 6 credits from other departments may be used toward this requirement (see list below).

Approved Related Courses in Other Departments

The list below is NOT comprehensive. Students may take approved related courses in other departments of the Faculty of Arts, such as Anthropology, Art History, Classics, English, History, Italian Studies, Philosophy, and Sociology selected in consultation with the Program Adviser.

EAST 354	(3)	Taoist and Buddhist Apocalypses
EAST 551	(3)	Technologies of Self in Early China
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511D1	(3)	History: Islamic Civilization - Mediaeval Era
ISLA 511D2	(3)	History: Islamic Civilization - Mediaeval Era
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 252	(3)	Interdisciplinary Lectures
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 359	(3)	Topics in Jewish Philosophy 2

The following approved courses offered by Jewish Studies require a reading knowledge of Hebrew:

JWST 330	(3)	A Book of the Bible
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 543	(3)	Maimonides as Parshan
JWST 573	(3)	History of Hebrew Bible Text

4.10.42 Sexual Diversity Studies

Sexual Diversity Studies, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.46: Sexual Diversity Studies](#)*.

4.10.42.1 Bachelor of Arts (B.A.) - Minor Concentration Sexual Diversity Studies (18 credits)

The Minor Concentration Sexual Diversity Studies is informed by a tradition of critical inquiry developed within various frameworks including Women's Studies and Gay, Lesbian and Queer Studies. It is designed to introduce students to the latest scholarship on the study of sexuality and sexual and gender diversity across a wide range of disciplines and cultures.

Required Course (3 credits)

SDST 250	(3)	Introduction: Sexual Diversity Studies

Complementary Courses (15 credits)

15 credits from the list below.

Note: If a course has an asterisk (*), it may be counted toward the program only when the topic is appropriate for Sexual Diversity Studies.

ARCH 533*	(3)	New Approaches to Architectural History
CANS 308	(3)	Sex and Gender in Canada
COMS 310	(3)	Media and Feminist Studies
COMS 490*	(3)	History and Theory of Media
EAST 304*	(3)	Current Topics: Chinese Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 370	(3)	History of Sexuality in Japan
ENGL 354	(3)	Sexuality and Representation
ENGL 407*	(3)	The 20th Century
ENGL 414*	(3)	Studies in 20th Century Literature 1
GEOG 541*	(3)	Topics in Geography 2
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 430*	(3)	Topics in Modern Medicine
HIST 433	(3)	British Queer History
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 457*	(3)	Topics in Medical History
MUAR 399	(3)	Music and Queer Identity
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PSYC 436	(3)	Human Sexuality and Its Problems
RELG 271	(3)	Sexual Ethics
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
SDST 450	(3)	Independent Reading & Research
SDST 499	(3)	Internship: Sexual Diversity Studies
SOCI 489	(3)	Gender, Deviance and Social Control

SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 530	(3)	Sex and Gender
SWRK 342	(3)	Practice with Gay, Lesbian, Bisexual & Two-Spirit People
WMST 301*	(3)	Women's Studies Current Topics 1
WMST 402*	(3)	Women's Studies Special Topics 2
WMST 513	(3)	Gender, Race and Science

4.10.43 Social Studies of Medicine (SSMD)

Social Studies of Medicine, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.47: Social Studies of Medicine \(SSMD\)](#)*.

4.10.43.1 Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 330	(3)	Science in the Medieval West
HIST 335	(3)	Science and Medicine in Canada
HIST 348	(3)	China: Science-Medicine-Technology
HIST 356	(3)	Medicine in the Medieval West
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 430	(3)	Topics in Modern Medicine
HIST 449	(3)	Medicine in the Ancient World
HIST 452	(3)	Medicine in Europe 1500-1700
HIST 457	(3)	Topics in Medical History
HIST 458	(3)	Modern Medicine: Seminar
HIST 459	(3)	Modern Medicine: Research
HIST 466	(3)	Seminar: Medieval Medicine
HIST 496	(3)	Research: Medieval Medicine
WMST 513	(3)	Gender, Race and Science

Anthropology of Medicine

ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 325	(3)	Anthropology of the Self
ANTH 407	(3)	Anthropology of the Body

ANTH 408	(3)	Sensory Ethnography
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6
ANTH 482	(3)	Special Topic 7
ANTH 483	(3)	Special Topic 8
ANTH 484	(3)	Special Topic 9
ANTH 485	(3)	Special Topic 10

Sociology of Medicine

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 588	(3)	Biosociology/Biodemography

4.10.44 Sociology (SOCI)

The Department of Sociology, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.49: Sociology \(SOCI\)](#)*.

4.10.44.1 Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 credits)

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

Complementary Courses (12 credits)

3 credits from the following:

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

9 credits of complementary courses chosen from the "Areas of Sociology" course lists below of which at least 3 credits must be taken at the 300-level or higher.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime
SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology

SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.44.2 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 440	(3)	Current Problems
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime

SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America

SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.44.3 Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2).

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.40 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 480	(3)	Honours Project

Complementary Courses (18 credits)

18 credits of complementary sociology (SOCI) courses approved by the Departmental Honours Adviser.

500-Level Seminars:

Seminars at the 500 level are open to Honours/Joint Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours/Joint Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Television in Society
SOCI 322	(3)	Sociology of Literature
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 377	(3)	Deviance
SOCI 388	(3)	Crime
SOCI 425	(3)	Sociology of the Body
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States

SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 565	(3)	Social Change in Panama

Social Stratification: Class, Ethnicity, and Gender

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 270	(3)	Sociology of Gender
SOCI 327	(3)	Jews in North America
SOCI 333	(3)	Social Stratification
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.45 Sustainability, Science and Society

4.10.45.1 Location

Program Advisers

Downtown Campus

Navin Ramankutty (*Associate Professor*)

Department of Geography

Global Environmental and Climate Change Centre (GEC3)

McGill University, Burnside 627

805 Sherbrooke St. W.

Montreal, QC H3A 0B9 CANADA

Telephone: 514-398-8428

Email: navin.ramankutty@mcgill.ca

Website: www.geog.mcgill.ca/faculty/ramankutty/index.html

Macdonald Campus

Elena Bennett (*Associate Professor*)

Department of Natural Resource Sciences and McGill School of Environment

21111 Lakeshore Rd.

Ste-Anne-de-Bellevue, QC H9X 3V9 CANADA
 Telephone: 514-398-7563
 Email: elena.bennett@mcgill.ca
 Website: <http://nrs-staff.mcgill.ca/bennett>

Program website: www.geog.mcgill.ca/SSS

4.10.45.2 About Sustainability, Science and Society

This program is a partnership between the Department of Geography and the McGill School of Environment and is administered through Geography.

4.10.45.3 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions-scientific-technological, socio-economic, political-institutional, ethical, and human behavioural-and to chart a transition to sustainability. It is built upon three pillars: 1) Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions; 2) Economics, Policy, and Governance, to understand how we can make the sustainability transition; and 3) Ethics, Equity, and Justice, to discuss why we need change, and the issues of equity and justice associated with taking action. This program is a partnership between Geography and the MSE and will be administered through Geography.

Required Courses (27 credits)

27 credits selected as follows:

Foundations of Sustainability

9 credits selected from Foundations of Sustainability as follows:

ENVR 201	(3)	Society, Environment and Sustainability
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

Biophysical, Societal, Cultural, Institutional, and Ethical

18 credits from introduction to biophysical, societal, cultural, institutional, and ethical dimensions of sustainability.

ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
GEOG 203	(3)	Environmental Systems
GEOG 310	(3)	Development and Livelihoods
MGPO 440	(3)	Strategies for Sustainability

Complementary Courses (27 credits)

27 credits selected as follows:

3 credits of Statistics

3 credits of System Modelling tools

3 credits of Economics

18 credits selected from 3 areas

Statistics

3 credits of Statistics from the following:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
PSYC 204	(3)	Introduction to Psychological Statistics

System Modelling

3 credits of System Modelling tools from the following:

ESYS 301	(3)	Earth System Modelling
GEOG 501	(3)	Modelling Environmental Systems

Economics

3 credits of Economics from the following:

AGEC 333	(3)	Resource Economics
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics

18 additional credits of complementary courses chosen from three areas listed below:

Students must choose at least two courses from each area, and in total complete at least 9 credits at the 300 level or higher.

AREA 1: Methods: Observation, Analysis, Modelling, and Management

AGRI 435	(3)	Soil and Water Quality Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 544	(3)	Environmental Measurement and Modelling
ESYS 500	(3)	Earth System Applications
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 404	(3)	Environmental Management 2
GEOG 509	(3)	Qualitative Methods
GEOG 523	(3)	Global Ecosystems and Climate
URBP 506	(3)	Environmental Policy and Planning

AREA 2: Society, Economics, Policy, Ethics, and Equity

Take at least one course from each subsection (2A and 2B) below:

2A: Society, Economics, and Policy

Note:

* Students select either AGECE 200 or ECON 208, but not both.

** Students may select either AGECE 201 or ECON 209, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 201**	(3)	Principles of Macroeconomics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology

ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 209**	(3)	Macroeconomic Analysis and Applications
ECON 230	(6)	Microeconomic Theory
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVR 519	(3)	Global Environmental Politics
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 303	(3)	Health Geography
GEOG 316	(3)	Political Geography
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 292	(3)	History and the Environment
MGCR 360	(3)	Social Context of Business
MGPO 475	(3)	Strategies for Developing Countries
MGPO 567	(3)	Business in Society
NRSC 540	(3)	Socio-Cultural Issues in Water
URBP 530	(3)	Urban Environmental Planning

2B: Ethics and Equity

ENVR 400	(3)	Environmental Thought
GEOG 382	(3)	Principles Earth Citizenship
MGPO 450	(3)	Ethics in Management
RELG 270	(3)	Religious Ethics and the Environment

AREA 3: Sustainability and Biophysical Processes

Note:

* Students select either BREE 217 or GEOG 322, but not both.

** Students select either BIOL 540 or ENVR 540, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 540**	(3)	Ecology of Species Invasions
BREE 217*	(3)	Hydrology and Water Resources
ENVB 410	(3)	Ecosystem Ecology
ENVR 540**	(3)	Ecology of Species Invasions
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 221	(3)	Environment and Health
GEOG 305	(3)	Soils and Environment

GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources
GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGECE 430, AGECE 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.45.4 Bachelor of Arts and Science (B.A. & Sc.) - Honours Interfaculty Program in Sustainability, Science and Society (60 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions-scientific-technological, socio-economic, political-institutional, ethical, and human behavioural - and to chart a transition to sustainability. It is built upon three pillars: 1) Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions; 2) Economics, Policy, and Governance, to understand how we can make the sustainability transition; and 3) Ethics, Equity, and Justice, to discuss why we need change, and the issues of equity and justice associated with taking action. This program is a partnership between Geography and the MSE and will be administered through Geography.

The Honours program allows students to pursue a research project with the supervision of a McGill University faculty member, leading to an honours thesis. Applicants must have a minimum program GPA (GPA of all required and complementary courses taken at McGill) of 3.3 to enter the Honours program. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495, 6 credits). Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours. Honours students need to identify a supervisor, an honours project, and register in ENVR 495. Honours students are encouraged to participate in 500-level seminars with graduate students.

Required Courses (33 credits)

33 credits selected as follows:

Foundations of Sustainability

9 credits selected from Foundations of Sustainability as follows:

ENVR 201	(3)	Society, Environment and Sustainability
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

Honours Required Courses

6 credits

Note: Students either take ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

Biophysical, Societal, Cultural, Institutional, and Ethical

18 credits from introduction to biophysical, societal, cultural, institutional, and ethical dimensions of sustainability.

ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
GEOG 203	(3)	Environmental Systems
GEOG 310	(3)	Development and Livelihoods
MGPO 440	(3)	Strategies for Sustainability

Complementary Courses (27 credits)

27 credits selected as follows:

3 credits of Statistics

3 credits of System Modelling tools

3 credits of Economics

18 credits selected from 3 areas

Statistics

3 credits of Statistics from the following:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
PSYC 204	(3)	Introduction to Psychological Statistics

System Modelling

3 credits of System Modelling tools from the following:

ESYS 301	(3)	Earth System Modelling
GEOG 501	(3)	Modelling Environmental Systems

Economics

3 credits of Economics from the following:

AGEC 333	(3)	Resource Economics
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics

18 additional credits of complementary courses chosen from three areas listed below:

Students must choose at least two courses from each area, and in total complete at least 9 credits at the 300 level or higher.

AREA 1: Methods: Observation, Analysis, Modelling, and Management

AGRI 435	(3)	Soil and Water Quality Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 544	(3)	Environmental Measurement and Modelling
ESYS 500	(3)	Earth System Applications
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 404	(3)	Environmental Management 2
GEOG 509	(3)	Qualitative Methods
GEOG 523	(3)	Global Ecosystems and Climate
URBP 506	(3)	Environmental Policy and Planning

AREA 2: Society, Economics, Policy, Ethics, and Equity

Take at least one course from each subsection (2A and 2B) below:

2A: Society, Economics, and Policy

Note:

* Students select either AGECE 200 or ECON 208, but not both.

** Students may select either AGECE 201 or ECON 209, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 201**	(3)	Principles of Macroeconomics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 209**	(3)	Macroeconomic Analysis and Applications
ECON 230	(6)	Microeconomic Theory
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVR 519	(3)	Global Environmental Politics
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 303	(3)	Health Geography
GEOG 316	(3)	Political Geography
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 292	(3)	History and the Environment
MGCR 360	(3)	Social Context of Business
MGPO 475	(3)	Strategies for Developing Countries
MGPO 567	(3)	Business in Society
NRSC 540	(3)	Socio-Cultural Issues in Water
URBP 530	(3)	Urban Environmental Planning

2B: Ethics and Equity

ENVR 400	(3)	Environmental Thought
GEOG 382	(3)	Principles Earth Citizenship
MGPO 450	(3)	Ethics in Management
RELG 270	(3)	Religious Ethics and the Environment

AREA 3: Sustainability and Biophysical Processes

Note:

* Students select either BREE 217 or GEOG 322, but not both.

** Students select either BIOL 540 or ENVR 540, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 540**	(3)	Ecology of Species Invasions
BREE 217*	(3)	Hydrology and Water Resources
ENVB 410	(3)	Ecosystem Ecology
ENVR 540**	(3)	Ecology of Species Invasions
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 221	(3)	Environment and Health
GEOG 305	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources
GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGECE 430, AGECE 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.46 Women's Studies (WMST)

Women's Studies, the programs, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.50: Women's Studies \(WMST\)](#)*.

4.10.46.1 Bachelor of Arts (B.A.) - Minor Concentration Women's Studies (18 credits)

This Minor concentration may be expanded to the Major Concentration Women's Studies.

Required Courses (6 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research

Complementary Course Group B (12 credits)

Minimum of 6 credits must be at the 300 level or higher.

Maximum of 6 credits will be accepted from approved exchange programs by arrangement with the Chair of the Women's Studies Advisory Committee and subject to University approval.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History

HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable **ONLY** when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6

COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

4.10.46.2 Bachelor of Arts (B.A.) - Major Concentration Women's Studies (36 credits)

Required Courses (6 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research

Complementary Courses (30 credits)

Overview of the specifications for the 30 complementary credits:

3 credits from a list of Women's Studies (WMST) courses and

27 remaining credits with a minimum of 6 credits at the 400 or 500 level with:

12 credits selected from Group A courses and

15 credits selected from Group B courses

A maximum 12 transfer credits will be accepted from approved exchange programs by arrangement with the Chair of the Women's Studies Advisory Committee and subject to University approval.

Women's Studies (WMST)

3 credits from:

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group A

12 credits from Group A

Group A courses are divided into eight sub-groups. Students may take only one course from any particular grouping. Any additional credits taken above the 12 credits from Complementary Course Group A may count as credits toward Complementary Course Group B.

Group A-1

SOCI 270	(3)	Sociology of Gender

Group A-2

PHIL 242	(3)	Introduction to Feminist Theory

Group A-3

COMS 310	(3)	Media and Feminist Studies

Group A-4, Gender Relations in Major Societal Institutions

SOCI 247	(3)	Family and Modern Society
SOCI 321	(3)	Gender and Work
SOCI 390	(3)	Gender and Health

Group A-5, Transnational or National Histories of Women/Gender and Sexuality

EAST 370	(3)	History of Sexuality in Japan
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2

Group A-6, Women/Gender and Literature

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory

Group A-7, Women/Gender in a Religious Tradition

RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender & Sexuality in Hinduism

Group A-8, Women and Health

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health

Complementary Course Group B

15 credits from Group B

Students select 15 credits from the Group B lists in consultation with an adviser and identify an individual focus of study comprised of 9 credits.

Reminder: A minimum of 6 credits at the 400 or 500 level must be taken in the 27 credits of Complementary Course Groups A and B. Students will find more possible choices to meet this requirement in Group B.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era

HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year. Additions may be made during a particular calendar year depending on the topics of the courses offered. For final updates, see <http://www.mcgill.ca/igsf>.

Please note that not all courses are offered every year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature

ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History
JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

4.10.46.3 Bachelor of Arts (B.A.) - Joint Honours Component Women's Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

The Joint Honours component in Women's Studies offers a degree of analysis and depth of contemporary and historical critical issues centered on women, gender, and/or feminism beyond that of the Major concentration. It culminates in the completion of an Honours thesis, supervised by a faculty member. Students secure the approval of a potential thesis adviser during the year before undertaking the thesis. Three credits are accorded to the thesis (graded by the Thesis Adviser), and 3 credits are accorded to work undertaken in the Colloquium which requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others.

Joint Honours students must maintain a GPA of 3.30 in all required and complementary courses that fulfil the requirements of a Joint Honours Component in Women's Studies, and a CGPA of 3.00.

Required Courses (12 credits)

WMST 200	(3)	Introduction to Women's Studies
WMST 303	(3)	Feminist Theory and Research
WMST 495D1	(1.5)	Honours/Joint Honours Colloquium
WMST 495D2	(1.5)	Honours/Joint Honours Colloquium
WMST 497D1	(1.5)	Honours/Joint Honours Thesis
WMST 497D2	(1.5)	Honours/Joint Honours Thesis

Complementary Courses (24 credits)

Overview of the specifications for the 24 complementary credits:

3 credits from a list of Women's Studies (WMST) courses and

9 credits selected from Group A courses and

12 credits selected from Group B courses.

Over the entire 24 credits,

6 credits minimum must be at the 400 or 500 level and

12 credits maximum may be at the 200 level.

A maximum 12 transfer credits will be accepted from approved exchange programs by arrangement with the Chair of WSAC and subject to University approval.

Women's Studies (WMST)

3 credits from:

WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group A

9 credits from Group A

Group A courses are divided into eight sub-groups. Students may take only one course from any particular grouping. Any additional credits taken above the 9 credits from Complementary Course Group A may count as credits toward Complementary Course Group B.

Group A-1

SOCI 270	(3)	Sociology of Gender

Group A-2

PHIL 242	(3)	Introduction to Feminist Theory

Group A-3

COMS 310	(3)	Media and Feminist Studies

Group A-4, Gender Relations in Major Societal Institutions

SOCI 247	(3)	Family and Modern Society
SOCI 321	(3)	Gender and Work
SOCI 390	(3)	Gender and Health

Group A-5, Transnational or National Histories of Women/Gender and Sexuality

EAST 370	(3)	History of Sexuality in Japan
HIST 323	(3)	History and Sexuality 1
HIST 347	(3)	History and Sexuality 2

Group A-6, Women/Gender and Literature

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory

Group A-7, Women/Gender in a Religious Tradition

RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender & Sexuality in Hinduism

Group A-8, Women and Health

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health

Complementary Course Group B

12 credits from Group B

Students select 12 credits from the Group B lists in consultation with an adviser and identify an individual focus of study comprised of 9 credits.

Reminder: A minimum of 6 credits at the 400 or 500 level must be taken in the 24 credits of Complementary Courses. Students will find more possible choices to meet this requirement in Group B.

Group B includes courses that significantly engage with issues of gender and/or women and/or feminism. They are offered by a range of faculties and disciplines. Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see <http://www.mcgill.ca/igsf/>.

Please note that not all courses are offered every year.

ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 413	(3)	Gender in Archaeology
ARTH 352	(3)	Feminism in Art and Art History
CLAS 370	(3)	Gender in the Ancient World
CMPL 504	(3)	Feminist Legal Theory
COMS 310	(3)	Media and Feminist Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 466	(3)	Feminism and Japan
EDPE 515	(3)	Gender Identity Development
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
GERM 364	(3)	German Culture: Gender and Society
GERM 455	(3)	Women of the Romantic Era
HISP 358	(3)	Women Writers Fiction Spanish-America
HISP 438	(3)	Topics: Spanish Literature
HIST 323	(3)	History and Sexuality 1
HIST 332	(3)	Women in Europe, 1350-1700
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 412	(3)	Women and Gender in Modern Britain
HIST 420	(3)	Gender and Sexuality in Modern China

HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 439	(3)	History of Women in China
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
HIST 463D1	(3)	Topics: History of Women in Canada
HIST 463D2	(3)	Topics: History of Women in Canada
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
ISLA 585	(3)	Arab Women's Literature
ITAL 383	(3)	Women's Writing since 1880
MUAR 250	(3)	Women Making Music
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 542	(3)	Seminar: Feminist Theory
RELG 256	(3)	Women in Judaism and Islam
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
SDST 250	(3)	Introduction: Sexual Diversity Studies
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 390	(3)	Gender and Health
SOCI 425	(3)	Sociology of the Body
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
WMST 301	(3)	Women's Studies Current Topics 1
WMST 302	(3)	Women's Studies Current Topics 2
WMST 401	(3)	Women's Studies Special Topics 1
WMST 402	(3)	Women's Studies Special Topics 2
WMST 461	(3)	Tutorial in Women's Studies 1
WMST 462	(3)	Tutorial in Women's Studies 2
WMST 494	(3)	Internship: Women's Studies
WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

Complementary Course Group B: Special Topics Courses

The courses below are acceptable ONLY when the topic is appropriate for Women's Studies (significantly engages with issues of gender and/or women and/or feminism) and there is documentation on file for the given year. Additions may be made during a particular calendar year depending on the topic of the courses. For final updates, see <http://www.mcgill.ca/igsf/>.

Please note that not all courses are offered every year.

ANTH 381	(3)	Special Topic 2
ARCH 533	(3)	New Approaches to Architectural History
CANS 301	(3)	Topics in Canadian Studies 2
CANS 406	(3)	Canadian Studies Seminar 6
COMS 490	(3)	History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 453	(3)	Topics: Chinese Literature
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 335	(3)	The 20th Century Novel 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 409	(3)	Studies in a Canadian Author
ENGL 411	(3)	Studies in Canadian Fiction
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 438	(3)	Studies in Literary Form
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 480	(3)	Studies in History of Film 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 500	(3)	Middle English
ENGL 528	(3)	Canadian Literature
ENGL 566	(3)	Special Studies in Drama 1
GEOG 541	(3)	Topics in Geography 2
GERM 362	(3)	20th Century Literature Topics
HIST 398	(3)	Topics in Italian History
HIST 426	(3)	Topics: British Cultural History
HIST 429	(3)	Topics: Canadian Family History
HIST 470D1	(3)	Topics: Historical Interpretation
HIST 470D2	(3)	Topics: Historical Interpretation
HIST 493D1	(3)	Topics: Canadian Social History
HIST 493D2	(3)	Topics: Canadian Social History

JWST 314	(3)	Denominations in North American Judaism
JWST 351	(3)	Studies in Modern Jewish Literature
PHIL 544	(3)	Political Theory
POLI 422	(3)	Developing Areas/Topics 2
POLI 459	(3)	Topics in Political Theory 2
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality

4.10.47 World Cinemas (FILM)

World Cinemas, the program, and specific courses are described under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.51: World Cinemas \(FILM\)](#)*.

4.10.47.1 Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

ENGL 277	(3)	Introduction to Film Studies
FILM 279	(3)	Introduction to Film History

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

CANS 300	(3)	Topics in Canadian Studies 1
EAST 214	(3)	Japanese Animation & New Media
EAST 216	(3)	Chinese Action Film
EAST 353	(3)	Approaches to Chinese Cinema
EAST 362	(3)	Japanese Cinema
EAST 368	(3)	Chinese Cinema Meets Hollywood
EAST 369	(3)	Topics in Gender and Sexuality in Chinese Cinema
EAST 454	(3)	Topics: Chinese Cinema
EAST 467	(3)	Topics: Japanese Cinema
EAST 564	(3)	Structures of Modernity: Japan
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 354	(3)	Sexuality and Representation
ENGL 363	(3)	Studies in the History of Film 3
ENGL 366	(3)	Film Genre
ENGL 374	(3)	Film Movement or Period

ENGL 379	(3)	Film Theory
ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema
ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film
ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français 1
FREN 311	(3)	Cinéma français 2
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	German Cinema from 1895
GERM 370	(3)	Special Topics in German Film
HISP 340	(3)	Spanish-American Cinema
HISP 341	(3)	Spanish Cinema
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 477	(3)	Italian Cinema and Video
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar

5 Faculty of Education

5.1 About the Faculty

The Faculty serves approximately 2,000 students enrolled in undergraduate, graduate, and professional development programs. The Faculty is organized into three departments and the School of Information Studies. In addition, the Faculty has a number of research and service centres, including several of an interdisciplinary nature.

Like other faculties of education in Quebec and Canada, the Faculty has had a traditional role in the initial training of teachers and leaders in education-allied occupations. It is also concerned with constructing knowledge through research and scholarship, and with providing professional development services to the wider educational community.

In recent years, a number of links have been established with counterparts in other countries for teaching, research, and development purposes. Current active projects, some of which involve students as well as staff, include those in Japan, Indonesia, South Africa, and Mexico.

5.2 History

The Faculty of Education traces its beginnings back to 1857, when the McGill Normal School was established at McGill by agreement between the University and the Government of Quebec. In 1907, it was renamed the School for Teachers and was moved to Sainte-Anne-de-Bellevue, where it became part of Macdonald College. At this time also, the Macdonald Chair of Education was endowed at McGill University and a Department of Education was created in the Faculty of Arts and Science for the purpose of preparing candidates for the High School Diploma. The first graduate program was inaugurated in 1930, and in 1953, the University established the B.Ed. degree.

In 1955, the School for Teachers and the Department of Education were combined to become the Institute of Education within the Faculty of Arts and Science. To these was joined, in 1957, the McGill School of Physical Education (founded in 1912).

The Institute was reconstituted as the Faculty of Education in 1965 and the work continued on both the McGill and Macdonald campuses. The St. Joseph Teachers College and the Faculty of Education were amalgamated in 1970 and relocated in a new building on the McGill campus. In 1996, the School of Information Studies became affiliated with the Faculty.

5.3 Faculty of Education Facilities

5.3.1 Education Library and Curriculum Resources Centre

The Education Library and Curriculum Resources Centre, located on the first floor of the Education Building, provides materials and services to support the teaching and research programs of the Faculty. The Library collection includes over 122,000 monograph volumes, 500 periodical titles, government publications, and access to a vast range of e-journals, e-books, and databases.

The Curriculum Resources Centre collection includes elementary and secondary school textbooks, teachers' resource guides, videos, DVDs, CDs, games, kits, puppets, big books, and equipment for viewing and listening. The Children's & Young Adult Literature Collection contains over 11,000 fiction, non-fiction, poetry, folklore, and picture books.

Tours and instructional workshops are offered at the beginning of each term to individual students and to classes. These provide an introduction to library resources and information skills that will help in preparing course assignments and writing research papers. They cover topics such as searching the library catalogue, finding course materials on reserve, and locating articles and other materials via databases such as ERIC, PsycINFO, Education Full Text, and others. Workshops on EndNote and other citation management programs provide help on how to easily create in-text citations, notes, and reference lists.

The Education Library provides computers for student use, tables and carrels to connect laptops, wireless access, as well as photocopiers, printers, and scanners. You may select to work in the quiet study area, in one of several group study spaces, or just relax on a comfortable reading chair.

Lending Services for laptops, digital still and video cameras, digital audio recorders, and tripods are now handled by the Education Library. These services are available during regular Library operating hours.

Visit the Education Library website to learn more about library loans, hours, reserve readings, and links to important education sites. We look forward to seeing you in the Library.

Head Librarian: Sara Holder

Telephone: 514-398-4689

Website: www.mcgill.ca/library/library-using/branches/education-library

5.3.2 Education Undergraduate Society (EDUS)

The Society is the undergraduate students' voice of undergraduates within the Faculty and its primary purpose is to serve and to inform the students. It also attempts to unify students through sponsorship of activities such as career placement, student orientation, participation in teachers' conventions, library donations, and the organization of an Education Career Fair. Other activities include the assignment of lockers for students, selling merchandise in the Spirit Store, the coordination of the Graduation Ball, as well as fundraising and events throughout the academic year. Students are encouraged to participate and to make their opinions known. The Society Office is located in Room B179 of the Education Building.

Telephone: 514-398-7048

Fax: 514-398-2476

Email: president.edus@mail.mcgill.ca

Website: www.mcgilledus.ca

5.3.3 Computer Facilities

The Faculty has a large computer complex located in Room 328 of the Education Building. It houses a lab with Windows computers, a second lab with Apple Macintosh computers, and a smaller work area with additional computers. Colour and black-and-white laser printing and scanning facilities are available at a cost. This facility is available for courses, workshops, and individual use by Education students and staff.

Closed Saturdays, holidays, and during the month of August.

Hours for the Fall and Winter terms

Monday to Thursday	09:00–21:00
Friday	09:00–17:00
Saturday	11:00–16:00

Website: www.mcgill.ca/education/technology (under “Education Computer Lab”)

5.3.4 McGill Career Planning Service (CaPS)

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Services* (available at www.mcgill.ca/study) for further information on this service.

Career Adviser: Andrea Taylor
 Telephone: 514-398-2484
 Email: andrea.taylor@mcgill.ca
 Website: www.mcgill.ca/edu-sao/caps

5.3.5 McGill Journal of Education

The *McGill Journal of Education/Revue des sciences de l'éducation de McGill* is an open-access, online journal that is published three times a year: Winter, Spring, and Fall. It includes work in English and French from local, national, and international contexts. The *MJE* publishes peer-reviewed research articles and essays, as well as non-peer-reviewed (editorial) notes from the field, discussion forums, and book reviews. It is concerned with major issues in formal, non-formal, and incidental teaching and learning from a variety of perspectives, practical and theoretical, personal and collective. Its policy is to bring new ideas and research into a context open to teacher educators and scholars, as well as to parents, teachers, popular educators, community workers, and administrators.

Editorial Collective: Dr. Anila Asghar, Dr. Aziz Choudry, Dr. Teresa Strong-Wilson
 Managing Editor: Mr. Stephen Peters

Faculty of Education
 McGill Journal of Education
 3700 McTavish Street, Room 345
 Montreal, Quebec H3A 1Y2
 Telephone: 514-398-4246
 Website: <http://mje.mcgill.ca>

5.3.6 A.S. Lamb Learning Centre

The A.S. Lamb Learning Centre, consisting of the computer laboratory and the reading room, is located on the second floor of the Sir Arthur Currie Memorial Gymnasium. The computer lab houses 25 computers connected to the McGill network and is available for courses, workshops, and individual use by students and staff. Laser printing is also available at a cost. Access to the McGill wireless network is available for laptops equipped with a wireless card.

LAN Tech.: Mr. Sanjeev Panigrahy
 Location: McGill Sports Complex, Room 207A
 475 Pine Avenue West
 Website: www.mcgill.ca/edu-kpe/facilities/asllc

Hours

Monday to Friday	09:00–16:00

5.3.7 Office of Student Teaching (OST)

The Office of Student Teaching is responsible for the planning and implementation of field experiences and arranging with school boards and schools for the placement of student teachers in the Bachelor of Education and Masters in Education programs. The Office coordinates student teaching among Departments within the Faculty, and develops partnerships with the education community. The Office offers training to colleagues in schools.

Office Hours

Monday to Friday

08:30–17:00

Director: Professor Fiona J. Benson

Office: Education Building, Room 431A

Telephone: 514-398-7046

Fax: 514-398-3179

Website: www.mcgill.ca/ost

5.3.8 Student Affairs Office (SAO)

The Student Affairs Office is responsible for student records and registration as well as general academic information and advice on undergraduate program and degree requirements, course change, withdrawal, supplemental and deferred exams, rereads, academic standing, inter-faculty transfer, readmission, study away, scholarships and awards, graduation, and teacher certification.

Special requests can be made, in writing, to Kimiz Dalkir, Executive Director (Student Affairs).

Office: Education Building, Room 243

Telephone: 514-398-7042

Fax: 514-398-4679

Email: sao.education@mcgill.ca

Website: www.mcgill.ca/edu-sao

5.3.9 Faculty Institutes, Offices, and Centres

5.3.9.1 The Institute for Human Development and Well-Being

The Institute for Human Development and Well-Being (IHDW) is a newly forming research institute led by the Faculty of Education that encourages a trans-disciplinary and multidisciplinary approach to the study of human development and well-being. It works across three main axes: human development across the life span; the role of family, community, and schools in supporting human development and well-being; and social policy and planning in relation to children and youth.

Director: Dr. Claudia Mitchell (*James McGill Professor*)

Email: claudia.mitchell@mcgill.ca

Website: www.mcgill.ca/ihdw

5.3.9.2 The Office of Leadership in Community and International Initiatives

Formerly the Centre for Educational Leadership (CEL), the office of Leadership in Community and International Initiatives (LCII) is a newly created unit in the Faculty of Education. The goals of LCII are:

- to develop, facilitate, enhance, and leverage collaborations, partnerships, and exchanges with various local, national, or international institutions and communities through a central, tightly aligned and well integrated administrative structure;
- to optimize existing and foster new possibilities for collaborations and partnerships including community-based research, professional development / research activities, and seminars and workshops; and
- to bridge theory and practice based on ethical and socially conscious initiatives.

Director: Dr. Lynn Butler-Kisber

Email: lynn.butlerkisber@mcgill.ca

5.3.9.3 The International Centre for Youth Gambling Problems and High-Risk Behaviors

McGill University's International Centre for Youth Gambling Problems and High-Risk Behaviors has been attempting to identify and understand the underlying determinants and critical factors related to youth gambling problems and their relationship with other adolescent addictive and high-risk behaviours. The ongoing research efforts conducted by Drs. Derevensky and Gupta, along with their graduate students, have been crucial in helping to identify the determinants placing youth at risk for gambling problems, and in the development of empirically based treatment and prevention programs. Of importance

has been the Centre's role in impacting public health and social policy in an effort to reduce and minimize the harms associated with excessive, problematic gambling.

Directors: Dr. Jeffrey Derevensky and Dr. Rina Gupta

5.3.9.4 The Research Centre for Physical Activity and Health

The Research Centre for Physical Activity and Health brings together specialists from different areas of research to investigate the implications of physical activity on health and well-being. The Centre's researchers examine physiological, neuromechanical, or behavioural aspects of physical activity and healthy living, in an attempt to bridge the gap between basic sciences (e.g., cellular physiology) and applied sciences (e.g., clinical exercise physiology) through multidisciplinary research.

Director: Dr. Russell Hepple

5.4 About the Faculty of Education (Undergraduate)

5.4.1 Department of Integrated Studies in Education

The Department of Integrated Studies in Education (DISE) offers undergraduate programs that are committed to the preparation of exceptional teachers for work in elementary and secondary schools. We have four-year Bachelor of Education programs for CEGEP graduates and five-year programs for out-of-province students. In addition, we can accommodate students with completed or partly completed degrees in other disciplines.

The Department offers:

- Bachelor of Education Secondary English
- Bachelor of Education Secondary Mathematics
- Bachelor of Education Secondary Science & Technology
- Bachelor of Education Secondary Social Sciences
- Concurrent Bachelor of Music and Bachelor of Education in Music (Music Education)
- Concurrent Bachelor of Science and Bachelor of Education (Secondary) **(New students are no longer being admitted to this program.)**
- Bachelor of Education Kindergarten and Elementary Education
- Bachelor of Education Kindergarten and Elementary Education First Nations and Inuit Studies
- Bachelor of Education Kindergarten and Elementary Education Jewish Studies
- Bachelor of Education Kindergarten and Elementary Pédagogie de l'immersion française (PIF) [French Immersion]
- Bachelor of Education Teaching English as a Second Language
- Bachelor of Education Teaching French as a Second Language **(New students are no longer being admitted to this program.)**
- Programs for First Nations and Inuit

5.4.2 Department of Educational and Counselling Psychology

The Department of Educational and Counselling Psychology (ECP) is committed to the advancement of scientific knowledge through research and practice in education and psychology. ECP addresses cognition and development in typical and atypical populations across the lifespan. Broadly speaking, researchers examine issues pertaining to assessment and intervention; cognitive processes and developmental neuroscience; and the design and evaluation of learning environments and instructional practices.

The Department offers:

- Minor concentrations for undergraduate students

5.4.3 Department of Kinesiology and Physical Education

The mission of the Department of Kinesiology and Physical Education (KPE) is to generate, advance, and disseminate knowledge about human health and physical activity, and to prepare professionals to engage in related employment.

The Department offers:

- Bachelor of Education Major in Physical and Health Education
- Bachelor of Science (Kinesiology) Major and Honours
- Minor in Kinesiology for Bachelor of Science students

5.4.4 Location

3700 McTavish Street
Montreal, Quebec H3A 1Y2
Canada

Telephone: 514-398-7042

Fax: 514-398-4679

Website: www.mcgill.ca/education

5.4.5 Administrative Officers

Dean

Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

Associate Deans

TBA (*Administration and Infrastructure*)

Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.) (*Research*)

Elizabeth Wood; B.F.A.(York), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.) (*Academic Affairs*)

Executive Director (Student Affairs)

Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

Deputy Associate Dean, Graduate Studies

Ingrid E. Sladeczek; B.A., M.S., Ph.D.(Ariz.), A.A.(Md.)

Unit Heads

France Bouthillier; B.Ed.(UQAM), MBSI(Montr.), Ph.D.(Tor.) – **Director** (*School of Information Studies*)

Jeffrey Derevensky; B.A.(C.W. Post), M.A., Ph.D.(McG.) – **Interim Chair** (*Educational and Counselling Psychology*)

Ralf St. Clair; Dipl.(Moray House), M.Sc. (Heriot-Watt), Ph.D. (Br. Col.) – **Chair** (*Integrated Studies in Education*)

René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.) – **Chair** (*Kinesiology and Physical Education*)

Office of Student Teaching Director

Fiona Benson; B.A.(Ott.), B.Ed., M.Ed., Ph.D.(McG.)

Student Affairs Officer

Joan Barrett

Senior Advisor, Finance and Resource Planning

Genevieve Côté

Building Director

Patricia Jackson

Human Resources Adviser

Dina B. Medeiros

5.5 Overview of Faculty Programs

The Faculty of Education offers three different kinds of programs.

Undergraduate Programs: The Faculty offers programs leading to the Bachelor of Education (B.Ed.) degree for those wishing to become teachers, and a Bachelor of Science (B.Sc.) – Kinesiology degree.

Programs of Professional Development: For qualified teachers wishing to enhance their knowledge and skills, the Faculty offers programs of professional development leading to specialized certificates and diplomas. Most courses that are required to complete these programs are offered in the evenings and in the summer.

Graduate Programs: The Faculty offers graduate programs for those already holding a university degree who wish to pursue advanced study and research leading to master's and doctoral degrees in various fields of education and psychology, and library and information studies. A new Master of Arts in Teaching and Learning, which leads to teacher certification, is also offered; more information is available at www.mcgill.ca/dise/progs/matl.

Undergraduate programs of initial teacher education are described in this publication; programs of professional development are described in the most current School of Continuing Studies *Programs, Courses and University Regulations* publication, and graduate programs are described in the most current Graduate and Postdoctoral Studies *Programs, Courses and University Regulations* publication, both available at www.mcgill.ca/study.

5.5.1 Undergraduate Education Programs

The Faculty of Education offers the following undergraduate programs. Details of each program may be found in this publication under the headings of the appropriate department.

All Bachelor of Education programs have been accredited by the *Comité d'agrément des programmes de formation à l'enseignement* (CAPFE).

The credit weights given are for students who have completed a Quebec CEGEP degree, or have been granted 30 credits of Advanced Standing. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

section 5.9.4.1: Bachelor of Education: Secondary Program (120 credits), offered by the Department of Integrated Studies in Education.

section 5.9.4.4: Bachelor of Education (Kindergarten and Elementary) (120 credits), offered by the Department of Integrated Studies in Education.

section 5.9.21: Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies (120 credits), offered by the Department of Integrated Studies in Education.

section 5.9.22.1: Bachelor of Education Kindergarten and Elementary Program (Jewish Studies Option), offered by the Department of Integrated Studies in Education.

section 5.9.4.5: Baccalauréat en enseignement du français langue seconde (120 credits) (B.Ed. TFSL), offered by the Department of Integrated Studies in Education jointly with the Université de Montréal.

Note: The B.Ed. TFSL program is no longer accepting new students as of Fall 2011.

section 5.9.4.6: Bachelor of Education in Teaching English as a Second Language (120 credits), offered by the Department of Integrated Studies in Education.

section 5.11.4: Bachelor of Education (B.Ed.) - Physical and Health Education (120 credits), offered by the Department of Kinesiology and Physical Education.

section 5.9.4.2: Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program (137 credits), offered jointly by the Department of Integrated Studies in Education and the Schulich School of Music.

See also *section 11.8.3.1: Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)* under *Schulich School of Music*.

section 5.9.4.3: Concurrent Bachelor of Science/Bachelor of Education (Secondary) (135 credits), offered jointly by the Department of Integrated Studies in Education and the Faculty of Science.

Note: The Concurrent B.Sc. and B.Ed. program is no longer accepting new students as of Fall 2012.

A student who successfully completes any of the **above** programs, (and meets other requirements set out by the *Ministère de l'Éducation, du Loisir et du Sport* (MELS)) is recommended for certification as a teacher in the province of Quebec; see *section 5.5.1.3: Quebec Teacher Certification*.

section 5.11.5: Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 credits), offered by the Department of Kinesiology and Physical Education.

The program entails a comprehensive understanding of human movement. Kinesiology is a multidisciplinary field viewing human movement from social, historical, psychological, or biological perspectives. The program provides students with a breadth of theoretical knowledge as well as an opportunity to explore related areas in greater depth, including minor programs available elsewhere within the University. An honours program is available for particularly strong students.

5.5.1.1 General Admission Requirements

For information about admission requirements to the B.Ed., B.Sc.(Kinesiology), or Concurrent B.Mus. and B.Ed. programs, refer to the Undergraduate Admissions Guide, found at www.mcgill.ca/applying. Please note that applicants to the Concurrent B.Mus. and B.Ed. must apply through the Schulich School of Music.

For information about interfaculty transfers or readmission, see *Programs, Courses and University Regulations > University Regulations and Resources > Registration > section 1.3.15: Interfaculty Transfer* or *section 1.3.16: Readmission*, as well as information posted on the Student Affairs Office website, www.mcgill.ca/edu-sao.

Although no additional prerequisite courses are required, the Faculty recommends that applicants to the B.Ed. Secondary Science & Technology, Secondary Mathematics, and B.Ed. Physical & Health Education programs have appropriate background in Science and Mathematics courses, i.e., biology, chemistry, physics, and mathematics. Students having other backgrounds will be considered for admission, but will be required to complete prerequisite courses in mathematics and science that may increase the number of credits required for the degree.

5.5.1.1.1 Language Requirement for Applicants to B.Ed. TESL Program

The application process for the B.Ed. TESL program involves several steps. Students first apply to the University indicating their program choice. Those whose academic record meets minimum program requirements will be informed by the University that they are being considered for admission to the B.Ed. TESL program. Students being considered will need to pass written and oral English language proficiency tests as a further admission requirement, and will be contacted by email with information about how to make arrangements to take the test.

5.5.1.2 Credit Requirements

The Bachelor of Education (B.Ed.) requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits. The Bachelor of Science (B.Sc.) – Kinesiology is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

Students entering the five-year B.Ed., or four-year B.Sc.(Kinesiology) degree are in Year 0 and are required to complete the Freshman requirements applicable to their program.

Students who have completed previous university studies may be awarded transfer credits for their coursework. This can only be determined after the formal application and all necessary supporting documents have been received by Enrolment Services. A minimum of 60 credits must be completed while in residence at McGill University in order to be eligible for a degree. Transfer credits for courses taken more than five (5) years before the time of admission are not permitted in subjects where there have been substantial content changes, nor in any pedagogy courses specific to the Quebec K-11 curriculum. Courses more than five (5) years old in other subject areas may be considered on an individual subject basis by the Program Director. For more details, see the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

5.5.1.3 Quebec Teacher Certification

Teacher Certification in Quebec is the responsibility of the *Ministère de l'Éducation du Loisir et du Sport* (MELS). Students who complete requirements for the Bachelor of Education degree and who meet the MELS requirements (specified below) are recommended by the University for certification.

Language Proficiency

Fluency (oral and written) in the language of instruction is a requirement for all those seeking certification.

Confidential declaration concerning judicial record

In June 2005, the National Assembly of Quebec adopted an Act amending the Education Act and the Act respective of private education. The amendments concern the verification of judicial antecedents of persons holding or applying for a permit to teach in the youth, adult, and vocational sectors. Anyone seeking teacher certification in the Province of Quebec is required to submit a confidential declaration concerning their judicial record to the Minister of Education. This document is available on the MELS website at www.mels.gouv.qc.ca/dftps/interieur/PDF/Antecedents_judiciaires_a.pdf.

Teaching Diploma

All graduates of the Bachelor of Education Teacher Education programs who are Canadian citizens or permanent residents may apply for a permanent Teaching Diploma (*Brevet*) immediately upon graduation. International students may apply for a Temporary Permit (*Permis d'enseigner*).

Permit

Holders of a temporary permit or of a permanent diploma wishing to teach in another province or in another country must apply directly to the Teacher Certification Agency in the relevant province or country.

Teachers from other provinces or countries who wish to teach in Quebec must apply to:

Ministère de l'Éducation du Loisir et du Sport
600 Fullum, 10e étage
Montréal, Québec H2K 4L1
Telephone: 514-873-4630

Please refer to the following website for further information on obtaining a Quebec Teaching Licence: www.mels.gouv.qc.ca.

It is recommended that applicants intending to teach outside of Quebec obtain information beforehand concerning the requirements for certification.

5.5.1.3.1 International Students

In addition to the CAQ and Study Permit, international students in Bachelor of Education programs must obtain a Work Permit (Internship) issued by Citizenship and Immigration Canada as a requirement for the mandatory Field Experiences. Consult the International Students website for more information www.mcgill.ca/internationalstudents/predeparture/documents.

5.5.2 Programs of Professional Development

The Faculty of Education offers programs of professional development in several fields. All such programs are 30 credits, unless otherwise indicated, and may be completed through part-time study. They are intended to provide an opportunity for teachers and other educators to enhance their existing knowledge and skills or to develop new ones, and thus are normally available only to those who are already certified as teachers.

Detailed information regarding general regulations, admission requirements, and program profiles for the following certificates and diplomas may be found in the section for offering departments.

5.5.2.1 Department of Educational and Counselling Psychology

Department of Educational and Counselling Psychology

Certificate in Inclusive Education

Diploma in Human Relations and Family Life Education

Graduate Certificate in Counselling Applied to Teaching

Further information is available from the Program Coordinator:

Dean Thomson
Office: Education Building, Room 614
Telephone: 514-398-4248
Fax: 514-398-6968
Email: dean.thomson@mcgill.ca

5.5.2.2 Department of Integrated Studies in Education

First Nations and Inuit Education (FNIE): The Faculty of Education collaborates with various Indigenous communities and institutions offering programs whose courses are given either at McGill or off campus. In collaboration with the Kativik School Board, the Cree School Board, the Kahnawake Education Centre, and various other Indigenous communities in Quebec, FNIE delivers field-based teacher education programs leading to initial teacher certification and to the B.Ed.Cert.Teach. degree. FNIE also works with departments to meet other educational needs of Indigenous peoples.

Director of Programs in First Nations and Inuit Education: Professor Ralf St. Clair
Office: Education Building, Room 244
Telephone: 514-398-4533
Fax: 514-398-2553
Email: ralf.stclair@mcgill.ca
Website: www.mcgill.ca/dise

Courses offered through Continuing Studies and Summer Studies: A wide range of courses, enabling students either to acquire prerequisite credits or to earn credit towards their degree, is offered through Continuing Studies and Summer Studies. For courses offered, please check [Minerva](#).

5.5.3 Programs for First Nations and Inuit

The following programs are offered for First Nations and Inuit teachers by the Faculty of Education.

Information can be obtained by contacting:

First Nations and Inuit Education (FNIE)
3700 McTavish Street, Room 244
Montreal, Quebec H3A 1Y2

Telephone: 514-398-4533
Fax: 514-398-2553
Website: www.mcgill.ca/dise/fnie

Bachelor of Education – Kindergarten and Elementary First Nations and Inuit Studies Option:

Detailed information about this program may be found in [section 5.9.21: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#).

Detailed information about the following programs may be found in [section 5.10: Programs for First Nations and Inuit](#):

Bachelor of Education for Certified Teachers Elementary Education

Detailed information about the following programs may be found in [section 5.10: Programs for First Nations and Inuit](#):

Certificate in Education for First Nations and Inuit

Certificate in First Nations and Inuit Student Personnel Services (This program is offered by the Department of Educational Psychology and Counselling through First Nations and Inuit Education. Restrictions apply to enrolment.)

Certificate in Middle School Education in Aboriginal Communities

Certificate in First Nations and Inuit Educational Leadership

Certificate in Aboriginal Education for Certified Teachers

Certificate in Aboriginal Literacy Education

5.6 Faculty Regulations for Undergraduate Programs

Please consult *Programs, Courses and University Regulations* > *University Regulations and Resources* > [Undergraduate](#) for regulations and procedures regarding registration, fees, course load, course change (drop/add), withdrawal, verification, examinations, inter-university transfer, and graduation. In addition, the following section provides regulations specific to Faculty of Education students.



Note: Each student in the Faculty of Education must be aware of and comply with the Faculty regulations as stated in this publication. While departmental and Faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for complete and correct course selection and registration, for compliance with, and completion of, program and degree requirements, for the observance of regulations and deadlines, and for academic records, rests with the student. It is the student's responsibility to seek guidance. Misunderstanding will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

5.6.1 Advising

Refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.11: Undergraduate Advising](#), and the Student Affairs website, www.mcgill.ca/edu-sao, for further information. Assistance is also available by emailing: sao.education@mcgill.ca.

All **newly admitted** students are required to consult with an academic adviser prior to the start of the Fall term. For a detailed description of advising and registration procedures, students should refer to *Welcome to McGill* at www.mcgill.ca/newstudents. Additional advising material is also available on the Student Affairs website, www.mcgill.ca/edu-sao/new/advising.

Academic advising for all **returning students** takes place in March for the upcoming academic year. Detailed advising and registration information is posted on the Student Affairs website: www.mcgill.ca/edu-sao/current/advising. Students entering their graduating year are encouraged to meet with their adviser during this Advising period.

A list of courses for Freshman (Year 0) students is available as part of the advising material for each program at www.mcgill.ca/edu-sao/new/advising.

5.6.2 Code of Professional Conduct (Faculty Regulations for Undergraduate Programs)

Faculty of Education programs have professional components and field placements. In all aspects of any program, on and off campus, students are expected to demonstrate ethical, responsible, and professional behaviour in the performance of their duties, to conduct themselves in accordance with the law (e.g., Youth Protection), and to meet the expectations of schools, boards, and other host institutions receiving them for field placements. This applies to all aspects of professional conduct, including but not limited to respect for persons, property, and confidentiality, appropriate dress, and punctuality. Failure to meet these expectations, regardless of performance in courses or other formal program requirements will be taken into account in the assessment of the students' overall academic standing in the program and, in the most serious instance, may result in a requirement to withdraw from the program.

5.6.3 English Language Requirement

The Quebec *Ministère de l'Éducation, du Loisir et du Sport* (MELS) requires that all students in teacher education programs demonstrate their proficiency in the language of instruction. To fulfil this obligation, B.Ed. students are required to write the English Examination for Teacher Certification (EETC) before the end of their first semester in the program, except for Year 0 (Freshman) students who will write the examination in their second year (Year 1). Students must pass the examination prior to their Third Field Experience.

The examination is coordinated by an independent body, the Centre for the English Exam for Teacher Certification. McGill assists with the administration and scheduling of the examination. To write this examination, students must first register on Minerva for a section of EDEC 215 in the Fall term, then register with the Centre (www.ceetc.ca) and pay a \$70 fee before writing the test.

Students who do not pass the examination the first time are expected to take EDEC 202 in the Winter term of their first year. After successful completion of EDEC 202, students are required to take the EETC again. A fee is charged each time the examination is written. Students who do not pass the examination on their fourth attempt must request permission from the Executive Director Student Affairs to write the examination again.



Note: This requirement does not apply to students in the B.Ed. TFSL or the Certificate in Education for First Nations and Inuit programs.

5.6.4 Additional Requirements for Students in the B.Ed. TFSL program

No admissions for 2013–2014.

For students currently enrolled in the B.Ed. TFSL program, there is a compulsory French language test coordinated by an independent body, which must be passed prior to the Third Field Experience.

5.6.5 Judicial Record Verification for Students in the Bachelor of Education Programs

Quebec's Education Act, section 261.0.2, grants school boards the right to verify the judicial record of any person regularly in contact with minors, and this includes student teachers. Each school board or private school may have its own administrative procedures for verification. Students are responsible for complying with their request. Anyone unable to obtain the required security clearance will not be permitted to undertake their Field Experiences, which is a mandatory requirement of the program, and consequently would be required to withdraw from the program.

5.6.6 Course and Program Regulations

5.6.6.1 Course Load

Undergraduate Education programs can normally be followed only on a full-time basis. Students must take a minimum of twelve (12) credits per term unless the Executive Director, Student Affairs gives them special permission. Special permission must be requested prior to the end of Course Add/Drop period.

Any absence or reduction in course load that may impact the regular progression of a student's program must have written approval by the Executive Director, Student Affairs.

The normal course load per term is 15 credits. Students in Satisfactory Standing may take up to 17 credits per term. Students whose CGPA is above 3.00 may request permission to take an overload. Overloads are **not** allowed in major Field Experience terms for students in the B.Ed. programs. Students in Probationary Standing take a maximum of 12 credits.

5.6.6.2 Time Limit and Credits for Completion of Degrees

Students are expected to complete their program no more than five (5) years after their initial registration for the B.Ed. degree and after four (4) years for the B.Sc.(Kinesiology) degree. Students who enter into a Freshman year become subject to these regulations one year after their initial registration. Students who exceed these limits must apply to the Faculty for permission to continue.

Students registered in the B.Ed. or B.Sc. are expected to complete the requirements of their programs and their degree within 150 or 120 credits respectively. Students will receive credits for all courses (subject to degree regulations) taken up to and including the semester in which they obtain the full degree credit requirements. Students who wish to remain at McGill beyond that semester must seek permission of the Executive Director, Student Affairs. Students who wish to exceed the specified minimum number of credits required for their degree must also seek permission of the Executive Director, Student Affairs. If permission is granted, credits over the limit will be flagged for no credit and the grades will not count in the CGPA.

Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as change of program or approved part-time status. If permission is granted, students will receive credit only for required and complementary courses necessary to complete their program requirements.

5.6.6.3 Course Requirements

All required and complementary courses used to fulfil program requirements must be completed with a grade of C or better. Students who fail to obtain a satisfactory grade in a required course must either pass the supplemental examination if available, or repeat the course. If the failed course is a complementary course required by the program, a student may choose to replace it with another complementary course. If a student repeats a required course in which a D was received, credit will only be given once. A failure (F, J, KF, WF) in any level of Field Experience places a student in Unsatisfactory Standing, requiring withdrawal from the program. Further details on requirements for Field Experience are listed in [section 5.7: Student Teaching/Field Experience](#).

5.6.6.4 Courses Taken as Transfer Credit

Students wishing to study away at a university outside of Quebec must obtain approval from their academic adviser and the Student Affairs Office prior to taking a transfer course. Students will only be permitted to take courses required to complete their program. Students are not permitted to take transfer courses during their graduating term. Please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.5.7: Transfer Credits* for further information.

5.6.6.5 Inter-University Transfer Credit

Students may, with the permission of their academic adviser, register at any university in the province of Quebec for three (3) or, exceptionally, six (6) credits per term in addition to their registration at McGill. Students will only be permitted to take courses required to complete their program. Students are not permitted to take transfer courses during their graduating term. Please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.3.5: Quebec Inter-University Transfer Agreement: McGill Students* for further information.



Note: This restriction does not apply to students in the Joint B.Ed. TFSL program.

5.6.6.6 Distance Education (online) Courses

A maximum of 6 credits of elective courses taught as distance education/online courses may be used toward the B.Ed. or B.Sc.(Kinesiology) degree at McGill. Courses taught through distance education/online may not be used to complete program requirements, including subject area courses for B.Ed. students, except on an individual basis when serious documented circumstances warrant it. In such cases, prior approval must be obtained from the student's program adviser and the Executive Director, Student Affairs.

5.6.6.7 Courses Taken under Satisfactory/Unsatisfactory Option

Required or complementary courses, including subject area courses for B.Ed. students, cannot be taken under this option. Please consult *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#)*.

5.6.6.8 Course Equivalencies and Overlap

Students will not receive additional credit toward their degree for any course that is considered equivalent or that overlaps in content with a course for which they have already received credit at McGill, or any other institution. It is the student's responsibility to be aware of exclusion clauses specified in the course description in this publication and Minerva. Students should also refer to the following website for specific information about advanced standing credits and McGill course exemptions: www.mcgill.ca/students/courses/plan/transfer, as well as the following website for Faculty-specific information: www.mcgill.ca/edu-sao.

5.6.6.9 Dress Regulations

All students enrolled in teacher certification programs are advised that school boards and individual schools may have regulations concerning acceptable attire. Students must adhere to any such regulations.

Students in Kinesiology and Physical Education programs are required to wear appropriate clothing for activity courses as approved by the instructor(s). Students may also be responsible for providing some items of personal equipment.

5.6.7 Registration

All students register by Minerva, McGill's web-based registration system. For detailed information about registration, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3: Registration](#)*; *Welcome to McGill* at www.mcgill.ca/newstudents; the Student Affairs website, www.mcgill.ca/edu-sao; and to the Student Records website, www.mcgill.ca/students/records.

Students who fall into Unsatisfactory Standing at the end of the academic year will have their registration cancelled and may not re-register in the Faculty. Students who can provide proof of extenuating circumstances may appeal to the Executive Director, Student Affairs for readmission. Please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3.16: Readmission](#)* and to www.mcgill.ca/edu-sao for Faculty-specific information.

Students who have an outstanding fee balance from a previous term or outstanding fines will not be permitted to register. Students with financial problems should consult the Student Aid Office, Brown Student Services Building.

Students who decide not to return to McGill must withdraw from all of their courses on Minerva or inform the Student Affairs Office in writing. For further information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3.9: Regulations Concerning Course Withdrawal](#)* and *[section 1.3.10: Regulations Concerning University Withdrawal](#)*.

5.6.7.1 Course Registration

Students in Faculty of Education programs should register for the courses as outlined in the individual program overviews and advising material posted on the Student Affairs Office website, www.mcgill.ca/edu-sao/new/advising and www.mcgill.ca/edu-sao/current/advising. For more information on registration, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3: Registration](#)*.

Students in the B.Ed. programs who are required to be registered for Field Experience should consult *[section 5.7: Student Teaching/Field Experience](#)* for more information.

Some courses may require special permission. Students should consult the *Programs, Courses and University Regulations* publication and/or the Class Schedule on Minerva well in advance of the Course Change period to determine if permission is required of the instructor, the department, or the Faculty for any course they wish to take.

A number of courses have prerequisites that must be completed prior to course registration. Permission to waive a prerequisite requirement must be given in writing by an academic adviser.

5.6.7.2 Withdrawals

There are three course withdrawal periods, published on the University website, www.mcgill.ca/importantdates, and in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.3.9: Regulations Concerning Course Withdrawal](#)*. Students may, under exceptional circumstances, be granted permission to withdraw after the published deadlines. Such students should contact the Student Affairs Office for further information.

Students withdrawing from a Field Experience should refer to *[section 5.7: Student Teaching/Field Experience](#)*.

5.6.8 Attendance

The class attendance necessary to satisfy course requirements varies from course to course. All students are expected to apprise themselves of and meet course-specific requirements.

Attendance is particularly critical in B.Ed. programs, as these are designed to develop required professional competencies, which prepare students for the demands of the teaching profession. Students must therefore inform themselves of, and adhere to, the attendance requirements for all Education courses. Special attention should be paid to the requirements of intensive courses and professional seminars scheduled around Field Experiences. Unexcused absences may result in exclusion from a course, course failure, and/or removal from any associated Field Experience.

For Field Experiences, punctual attendance is required throughout. Absences are only excused in exceptional circumstances. Please refer to [section 5.7: Student Teaching/Field Experience](#).

Students in B.Ed. programs should be aware that some Field Experiences may begin in August, some are held in the Spring, and some may overlap with the official exam period. In addition, some professional seminars follow unique schedules. It is the student's responsibility to consult the Class Schedule on Minerva. In the case of a conflict with a final exam, students will be excused from the Field Experience or professional seminar on the exam date.

5.6.9 Grading

During the first week of lectures, each instructor will provide students with a course outline that should include a description of the means of evaluation to be used in the course.

For further information on Grading, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#).

5.6.10 Incomplete Grades

An instructor who believes that there is justification for a student to delay submitting term work may extend the deadline until after the end of the course. In this case, the instructor will submit a grade of "K" (Incomplete), indicating the date by which the work is to be completed. The maximum extensions for the submission of grades to the Student Affairs Office are as follows: April 30 for Fall term courses; July 30 for Winter term courses; and November 30 for Summer courses. It is important to note that instructors may impose earlier deadlines than those listed. Please refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.5.6: Incomplete Courses](#) for more information.

5.6.11 Examinations

Students should see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.6: Examinations: General Information](#) for more information about final examinations and deferred examinations. The exam schedules are posted on the McGill website, www.mcgill.ca/students/exams, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

5.6.11.1 Supplemental Examinations

Students who wish to write a supplemental examination for a course in which a supplemental examination is available must apply on Minerva within the published deadline. Please refer to the Student Information website, www.mcgill.ca/students/exams, for important information.

Students must be in Satisfactory or Probationary Standing and have received a final grade of D, J, F, or U in the course.

5.6.11.2 Reassessment and Rereads

In accordance with the Charter of Student Rights, and subject to the conditions stated therein, students have the right to consult any written submission for which they have received a mark and the right to discuss this submission with the examiner (see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.6.7.3: Final Examinations: Reassessments and Rereads](#)).

The Faculty recognizes two types of reassessments or rereads:

1. Reassessment of coursework (term papers, mid-terms, assignments, quizzes, etc.);
2. Reread of a final exam.

5.6.11.3 Reassessment of Course Work

Reassessment of course work is administered by the course instructor or the offering department. Requests, made by students, must be made within 10 working days of the date of return of the graded materials. The reviewer will assess the fairness of the original grade rather than remark the assignment as he or she would have graded it. Reassessments should normally be completed within 20 working days of the request. Grades may be lowered or raised, or they may remain the same, as a result of the reassessment. The grade obtained on the reassessment takes precedence over the original grade.

5.6.11.4 Rereads of Final Exams or Final Term Papers or Projects

These rereads are administered by the Student Affairs Office, but conducted by the units involved. Students must apply in writing to the Student Affairs Office by March 31 for courses in the Fall term, June 30 for courses in the Winter, and by September 30 for Summer term courses (these deadlines are strictly enforced and no requests will be accepted past them). Students are assessed a fee of \$35.00 for such rereads. It is strongly recommended, but not required, that students consult with the instructor of the course before requesting an official reread. The reviewer will assess the fairness of the original grade rather than remark the assignment as he or she would have graded it. Grades may be lowered or raised, or they may remain the same, as a result of the reread. The grade obtained on the reread takes precedence over the original grade.

Reassessments and rereads in courses not in the Faculty of Education are subject to the deadlines, rules, and regulations of the particular faculty.

5.6.12 Academic Standing

Academic Standing is based primarily on students' Cumulative Grade Point Average (CGPA), but may also be affected by their Term Grade Point Average (TGPA). For students in the B.Ed. programs, it is also based on their performance in the Field Experience courses. Academic Standing, which is assessed after the end of term, determines if students will be allowed to continue their studies in the next term and if any conditions will be attached to their registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which students have deferred examinations and Fall term grades for courses that span the Fall and Winter terms do not affect Academic Standing for the Fall term, even though they will ultimately affect students' Fall TGPA. Therefore, Academic Standing for the Fall term is designated as "Interim" and should be interpreted as advisory.

Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions. Students who do not receive a Pass grade for a Fall term EDFE (Field Experience course) are placed in Unsatisfactory Standing. Permission may be granted to allow them to continue taking courses during the Winter term only.

5.6.12.1 Satisfactory/Interim Satisfactory Standing

Students in Interim Satisfactory or Satisfactory Standing:

- may continue in their program;
- have a CGPA of 2.00 or greater.

5.6.12.2 Probationary/Interim Probationary Standing

5.6.12.2.1 Interim Probationary Standing at the end of the Fall term

Students in Interim Probationary Standing at the end of the Fall term:

- may continue in their program;
- should evaluate their course load and reduce it;
- should consult with their program adviser before the withdrawal deadlines;
- are permitted to proceed with the next scheduled Field Experience course, i.e., Winter or Spring, for First- or Second-Year Field Experiences only.

5.6.12.2.2 Probationary Standing at the end of the Winter term

Students in Probationary Standing at the end of the Winter term:

- may continue in their program;
- must carry a reduced load (maximum of 12 credits per term);
- are not permitted to take student teaching/Field Experience courses of any level during the next academic year;
- must raise their TGPA and CGPA to return to Satisfactory;
- should see their departmental adviser to discuss their course selection.

5.6.12.2.3 Students will be placed in Probationary Standing

- if their CGPA falls between 1.50 and 1.99, and if they were previously in Satisfactory Standing;
- if they receive a grade of D for a Field Experience course of any level and were previously in Satisfactory Standing;
- if their CGPA falls between 1.50 and 1.99 and their TGPA in Fall or Winter is 2.50 or higher, and if they were previously in Probationary or Interim Unsatisfactory Standing;
- if their CGPA is between 1.50 and 1.99 and their TGPA is 2.50 or higher, they were previously in Unsatisfactory Readmitted Standing, and have satisfied the relevant conditions specified in their letter of readmission.

5.6.12.3 Unsatisfactory/Interim Unsatisfactory Standing

5.6.12.3.1 Interim Unsatisfactory standing at the end of the Fall term

Students in Interim Unsatisfactory standing at the end of the Fall term:

- may continue in their program;
- should evaluate their course load and reduce it as appropriate;
- should consult a departmental adviser, before the withdrawal deadlines, about their course selection for the Winter term;
- will not be permitted to proceed with the next normally scheduled Field Experience.

5.6.12.3.2 Unsatisfactory Standing at the end of the Winter term

Students in Unsatisfactory Standing at the end of the Winter term:

- have failed to meet the minimum standards set by the Faculty;
- may not continue in their program.

5.6.12.3.3 Readmitted Unsatisfactory Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Executive Director, Student Affairs or the Committee on Student Standing will have their standing changed to Readmitted Unsatisfactory Standing. Their course load is specified at the time of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see their departmental adviser to discuss their course selection.

5.6.12.3.4 Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term)

- if their CGPA falls or remains below 1.50;
- if their TGPA falls below 2.50 and their CGPA is below 2.00 and they were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing;
- if they receive a failure (F, J, KF, WF) in a student teaching/Field Experience course of any level;
- if they were previously in Unsatisfactory Standing and were readmitted to the Faculty by the Executive Director, Student Affairs or the Committee on Student Standing and have not at least satisfied the conditions to attain Probationary Standing that were specified in the letter of readmission.



Note: Students in either the Concurrent B.Sc. and B.Ed. or the B.Mus. and B.Ed. program who receive an F or J in any Education Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the Concurrent program. They may, however, contact the Faculties of Science or Music regarding application to a Bachelor of Science or a Bachelor of Music degree.

5.6.12.3.5 Readmission

Students should apply on Minerva by July 1 for readmission to the Fall term. Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Executive Director, Student Affairs. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation).

Students in Unsatisfactory Standing for the second time must withdraw permanently. Students who were placed in Unsatisfactory Standing due to a failure in student teaching/Field Experience cannot apply for readmission for at least one full year and are advised to apply for readmission by April 15. Please refer to the Student Affairs Office website for further information: www.mcgill.ca/edu-sao/current/transfers.

5.6.12.3.6 Incomplete Standings

- Must clear K's, L's, or Supplementals
- To Be Determined
- Incomplete

Students with Incomplete Standings in the Winter or Summer term may register for the Fall term, but their Standing must be resolved by the end of the Course Change period for that term. Students whose Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing may continue in the program. Students whose Standing changes to Unsatisfactory may not continue in their program.

Students whose Standing changes to Unsatisfactory and who wish to ask for permission to continue in their program must make a request to the Associate Dean of Student Affairs as soon as they are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation).

Students whose Standing is still Incomplete by the end of the Course Change period should immediately consult with the Student Affairs Office.

5.6.13 Graduation Requirements

To be eligible for a B.Ed. or the B.Sc.(Kinesiology) degree, students must fulfil all Faculty and program requirements. This includes completing the minimum credit requirements for the degree as stipulated in the letter of acceptance; obtaining a grade of C or better in all required and complementary courses; and achieving a minimum cumulative grade point average (CGPA) of 2.00. Students must satisfactorily complete a minimum of 60 credits at McGill University toward the fulfilment of the degree requirements. In addition, students must complete specific components of their program at McGill.

Students enrolled in Kinesiology and Physical Education programs are required, before the end of their final year of study, to show proof of certification in Standard Level Safety Oriented First Aid, and Level C in Cardiopulmonary Resuscitation, or equivalencies.

Students must complete their degree requirements within five (5) years after their initial registration for the B.Ed. degree and within four (4) years after their initial registration for the B.Sc.(Kinesiology) degree. Students in the part-time B.Ed. for Certified Teachers program are allowed a maximum of 12 years to complete the requirements for the degree.

It is the student's responsibility to ensure that all Faculty requirements are met before graduation.

Early in their graduating year, all students should check with their adviser to make sure that they will meet all program requirements in time for graduation. It is essential that students in their final year indicate the expected date of graduation by applying for graduation on Minerva; see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.9: Graduation* for more information. During the graduation approval process, students can query their graduation record on Minerva to verify that the Faculty has approved their graduation. When a final-year student changes the expected date of graduation, the student must notify the Student Affairs Office immediately. It is also the student's responsibility to complete the required forms for teacher certification, and to check that his/her graduation has been approved. Further information is available on the Student Affairs Office website: www.mcgill.ca/edu-sao.

Students are not permitted to take courses outside McGill University during the last term prior to graduation. Students who fail to graduate as expected and who do not re-register must apply to the Executive Director, Student Affairs to graduate. Application to graduate must be made sufficiently in advance of the expected graduation date to allow the Faculty to verify the student's record.

Information pertaining to the convocation ceremonies can be obtained on the McGill website: www.mcgill.ca/students/graduation/convocation.

5.6.14 Undergraduate Program Awards

5.6.14.1 Dean's Honour List Designation for Graduating Students

The designation Dean's Honour List may be awarded to graduating students under the following conditions:

- Students must be among the top 10% of the Faculty's graduating students.
- Students must have completed a minimum of 60 McGill credits to be considered.
- The designation is based on the cumulative academic record (CGPA).

5.6.14.2 Dean's Honour List Designation for In-course Students

The designation Dean's Honour List may be awarded to in-course students under the following conditions:

- Students must be among the top 10% of the Faculty's students.
- Students must have completed at least 27 graded credits during the academic year.
- The designation is based on the sessional (Fall and Winter) GPA.

5.6.14.3 Scholarships and Awards

Various scholarships and awards are open to both graduating and in-course students. For more information, consult the Scholarships and Student Aid website at www.mcgill.ca/studentaid/scholarships.

5.7 Student Teaching/Field Experience

The **Office of Student Teaching (OST)**, www.mcgill.ca/ost, is responsible for arranging the placement and evaluation of all student teachers in supervised Field Experiences.

5.7.1 Field Experiences

Field Experiences:

- are required courses (with the subject code EDFE) for all students in B.Ed. programs from first through fourth year;
- are the sole responsibility of the Faculty of Education and are organized by the Office of Student Teaching. Under no circumstances should students make their own placement arrangements;
- must be taken in the required sequence;
- require that newly admitted and returning students follow registration procedures (see [section 5.6.7: Registration](#)) or risk not being placed in a host school;
- are completed in schools within anglophone school boards in the province of Quebec in the majority of cases, with the exception of the B.Ed. TESL program Field Experiences, which take place in schools within francophone school boards in the province of Quebec;
- can be specialized in some circumstances. Refer to the OST website for information regarding such opportunities (distance, special needs, resource room, adult education, etc.);
- could require that students travel some distance to their host school and students should therefore budget time and money for this purpose;
- may begin before the first day of lectures or end after the last day of lectures;
- may continue during the University-scheduled Study Break in the Winter term;
- may continue through May into the Summer term (refer to the OST website or Minerva for exact dates).

5.7.2 Registration

5.7.2.1 Newly Admitted Students

Newly admitted students:

- in B.Ed. K/Elementary, B.Ed. TESL, B.Ed. Secondary programs must be registered for Field Experience 1 by the end of August (see www.mcgill.ca/importantdates for deadline);
- in B.Ed. Secondary Science and Math programs should consult an adviser during the August advising sessions prior to registering for Field Experience courses; Field Experience 1 is offered in the Summer term for these B.Ed. Secondary subjects only;
- in B.Ed. Music, and B.Ed. Physical and Health Education programs must register in February for Field Experience 1 (Summer term);
- who are registered for a Field Experience will receive instructions for accessing the online Student Teaching Placement Form at their official @mail.mcgill.ca email address. Forms must be submitted by the date indicated in the email.

5.7.2.2 Returning Students

Returning students:

- must register for Field Experience 3 on Minerva by mid-April of the preceding academic year (see www.mcgill.ca/importantdates for deadline). Field Experience 3 begins in late August before the start of lectures. (See Minerva or OST website for details.)
- must register for Field Experience 4 on Minerva by the beginning of October (see www.mcgill.ca/importantdates for deadline);
- who are registered for a Field Experience will receive instructions for accessing the online Student Teaching Placement Form at their official @mail.mcgill.ca email address. Forms must be submitted by the date indicated in the email;
- must be in Satisfactory Standing and have satisfied all prerequisite and corequisite course requirements (refer to www.mcgill.ca/edu-sao/current). B.Ed. Secondary program students must have successfully completed 24 credits in their official subject area prior to Field Experience 3. All B.Ed. students must successfully pass the English Exam for Teacher Certification (EETC; EDEC 215) prior to Field Experience 3. Minerva does not necessarily prevent students from registering for courses that they should not take. It is the student's responsibility to be aware of prerequisites, corequisites, restrictions, and Faculty regulations that apply to the courses in which they register. Students should consult an academic adviser for assistance. Students missing any of these requirements will be removed from their field placement. (See [section 5.7.4.1: Termination of Field Experience.](#))
- in B.Ed. K/Elementary, Secondary, and TESL programs who wish to transfer within these programs will not be required to repeat Field Experience 1.

5.7.3 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Field Experience, including pedagogical and professional behaviour, available at www.mcgill.ca/ost.

Students should not engage in any type of employment during Field Experience, nor register for any course that might interfere with the successful outcome of a Field Experience.

5.7.3.1 Guidelines (Syllabus)

Detailed guidelines and evaluation forms for every Field Experience are posted on the OST website, arranged by program and year. Students are responsible for familiarizing themselves with the objectives, evaluation criteria, and forms for each level of Field Experience, and must submit all completed evaluation forms to the OST on the first business day following the end of the Field Experience in order to receive a grade.

5.7.3.2 Attendance and Absences

Punctual attendance is required at the assigned school for the entire Field Experience. Alternate dates cannot be arranged at the request of the student. Unexcused absences from intensive courses and professional seminars may result in exclusion from the course, course failure, and/or removal from any associated Field Experience.

Days absent due to illness or McGill exams must be made up at the end of the Field Experience. Absences due to illness require a valid medical note (see www.mcgill.ca/studenthealth/clinic/notes) to be submitted to the OST, and the outcome of the Field Experience will be evaluated on an individual basis. Student teachers must contact the following people as soon as possible on the morning of the day of their absence:

- School office
- Cooperating teacher
- Office of Student Teaching, telephone 514-398-7046
- Field supervisor

Student teachers are permitted to be absent for religious holy days, as outlined in McGill's Policy for the Accommodation of Religious Holy Days; see www.mcgill.ca/importantdates/holy-days-0. Students must notify the OST, cooperating teacher, and field supervisor before the Field Experience begins if possible, or at least two weeks before the planned absence. The missed days must be made up, usually at the end of the Field Experience.

Absences related to McGill Intercollegiate Sport events are evaluated by the Director of the OST on a case-by-case basis. Student teachers must submit a signed copy of the [Intercollegiate Sport Event Accommodation form](#) to the OST at least two weeks in advance of each conflict.

Absences for any other reason, including but not limited to: marriage, family parties, vacation, university extracurricular activities, employment, or conflicting courses, are not permitted during Field Experience under any circumstances. Students should consult an academic adviser if they need to rearrange their course schedule.

5.7.3.3 Judicial Record Verification

See [section 5.6: Faculty Regulations for Undergraduate Programs](#) > [section 5.6.5: Judicial Record Verification for Students in the Bachelor of Education Programs](#) for information on the requirement to obtain this security clearance. Additional information can be found on the OST website.

5.7.3.4 Work Permit for International Students

International students (students who are not Permanent Residents or citizens of Canada) must apply for an internship/co-op work permit issued by Citizenship and Immigration Canada as a requirement for their mandatory Field Experiences. This is not the same as an off-campus work permit. The internship/co-op work permit is free of charge, but takes time to obtain and may require a medical exam. Detailed instructions are available on the OST website. For assistance with the application students should contact International Student Services, www.mcgill.ca/internationalstudents. Students must submit a copy of their valid permit to the OST before the Field Experience starts.

5.7.4 Grading and Credit

Field Experiences are graded “Pass/Fail.” Students must submit all completed evaluation forms to the OST immediately following their Field Experience in order to receive a grade.

Where a student is experiencing serious difficulties in a Field Experience but has demonstrated some potential to successfully reach the required standard, the student may be granted a “D” grade. In this case, the Director of the OST has the authority to grant special permission for a student to repeat a Field Experience during the next term in which the course is offered. This special permission will be granted once only in a student's program. Students receiving a “D” grade are also required to repeat the corequisite seminar or other corequisite course as specified by the Director. The original grade for the corequisite seminar or course will be excluded from the GPA and credits; only the second grade will be retained.

Students must receive a Pass grade in order to proceed in the B.Ed. program. Failure (F, J, KF, WF) in any Field Experience places a student in Unsatisfactory Standing, requiring withdrawal from the Teacher Education Program. Students who fail in a Fall term Field Experience may be allowed to continue taking courses in the program to enable transfer to another faculty. Refer to <http://www.mcgill.ca/edu-sao/current/academicstanding>.

A student may appeal a failing grade or termination of a Field Experience by making a formal application to the Executive Director, Student Affairs.

5.7.4.1 Termination of Field Experience

At any time, students may be removed from their Field Experience placement at the request of the host school administrator and cooperating teacher, or at the request of the Director of Student Teaching. Students who are removed from a Field Experience placement will be informed of the reason for the termination and will meet with the Director.

Circumstances that could lead to termination include, but are not limited to:

- Prerequisite courses not successfully completed.
- Exceeding the number of permissible unexcused absences for corequisite courses (consult the syllabus for each course).
- Failure to pass a judicial record check, if required by the school or school board where the student is placed.
- Unprofessional behaviour; behaviour that contravenes the Code of Ethics for Student Teachers.
- Failure to make the improvements outlined on a Notification of Concern by the date indicated.

The final outcome for a Field Experience that is terminated will be decided by the Director of Student Teaching.

Possible outcomes are:

- Reassignment during the same term, subject to availability of placements.
- “W” – Withdrawal (normally without refund).
- “D” – Student will be permitted to register for the Field Experience again during the next regularly scheduled term.
- “F, J, KF, WF” – Failure in any Field Experience places the student in Unsatisfactory Standing, requiring withdrawal from the B.Ed. program. Refer to www.mcgill.ca/edu-sao/current/academicstanding.

If a student cannot continue the Field Experience due to illness, see [section 5.7.4.2: Withdrawal from Field Experience](#).

If a student chooses to end his or her Field Experience, the Director of Student Teaching will evaluate the circumstances and determine an outcome. Possible outcomes are the same as those listed above.

5.7.4.2 Withdrawal from Field Experience

- Withdrawal (with refund) for any reason must be done at least two weeks before the start date of the Field Experience. The student is responsible for notifying the OST in writing by this deadline.

- Students having to withdraw for any reason, including illness, from a Field Experience that begins in less than two weeks or that is underway must immediately inform the OST. Based on the circumstances of the withdrawal, the Director of the OST will determine the final outcome of the Field Experience and the Student Affairs Office will determine eligibility for refund.

5.7.4.3 Transfer Credit

Students who previously completed a Field Experience at another local university may be eligible for transfer credit (Advanced Standing) for Field Experience 1 only. Contact an academic adviser to discuss this possibility. Students may need to submit a syllabus for the course so that the OST can determine equivalency.

For general information about transfer credits at McGill, see www.mcgill.ca/students/transferecredit, as well as Faculty-specific information at www.mcgill.ca/edu-sao/new/advancedstanding.

5.7.5 Code of Professional Conduct: Code of Ethics for Student Teachers

5.7.5.1 Preamble – A Student-Centred Perspective

• Mandate

A joint subcommittee consisting of members from two standing committees of the Faculty of Education (Faculty of Education Ethical Review Board and Student Standing) was created to develop a Code of Ethics for Student Teachers and to examine the ways in which this Code will be communicated to students, faculty members, and educational partners.

• Goals and Rationale

The interests of the two Standing Committees of the Faculty of Education in promoting appropriate ethical and professional conduct have led us to develop the following Code of Ethics for Student Teachers. This code seeks to respond to and address the following needs:

1. The Code addresses the interdependent duties, rights, and responsibilities of student teachers, faculty members, and educational partners.
2. By addressing common issues and needs, the Code seeks to articulate and make explicit ethical principles that transcend disciplinary boundaries. These principles reflect the fundamental values that are expressed in the duties, rights, and responsibilities of all involved in Teacher Education.
3. The Code requires a reasonable flexibility in the implementation of common principles. It is designed to help those involved in Teacher Education, as a matter of sound ethical reasoning, to understand and respect the contexts in which they work and accommodate the needs of others.
4. The Code seeks to encourage continued reflection and thoughtful response to ethical issues. It does not seek definitive answers to all ethical questions or situations. Rather, it seeks to outline the guiding principles to ethical conduct and to identify major issues that are essential to the development and implementation of this Code.

• Context of an Ethics Framework for Student Teachers

The principles and norms guiding ethical conduct are developed within an ever-evolving complex societal context, elements of which include the need for reflective action and ethical principles.

Education is premised on a fundamental moral commitment to advance and construct knowledge and to ensure human understanding and respect for individual and collective well-being and integrity.

The moral imperative of respect translates into the following ethical principles that assume a student-centred perspective as articulated in the Quebec Curriculum Reform and Competencies outlined for Teacher Education.

5.7.5.2 Academic Freedom and Responsibilities

Teachers enjoy, and should continue to enjoy, important freedoms and privileges. However, with freedoms come responsibilities and ethical challenges. This Code of Ethics is in keeping with the philosophy and spirit of the New Directions that are embedded in the document “Teacher Training: Orientations, Professional Competencies” (MEQ 2001) and the reflective practice literature.

The role of the teacher and the contexts of teaching have changed. Thus, new resources (knowledge, skills, attitudes) are required to practice the profession and to meet the challenges of teaching and learning in whatever contexts student teachers may find themselves, and to engage in professional development individually and with others.

5.7.5.3 Ethics and Law

“Teaching is governed by a legal and regulatory framework” (MEQ 2001, p. 120). The law affects and regulates the standards and norms of teaching behaviours in a variety of ways such as respecting privacy, confidentiality, intellectual property, and competence. Human rights legislation prohibits discrimination and recognizes equal treatment as fundamental to human dignity and well-being. Teachers should respect the spirit of the Canadian Charter of Rights and Freedoms, particularly the sections dealing with life, liberty, and the security of the person, as well as those involving equality and discrimination and the Education Act that sets out the obligations and rights of teachers.

5.7.5.4 Guiding Ethical Principles

Ethical student teachers should respect the following guiding ethical principles:

1. Respect for Human Dignity

- Speaks and acts toward all students with respect and dignity; and deals judiciously with them at all times, always mindful of their individual rights and personal sensibilities.
 - Respects the dignity and responsibilities of cooperating teachers, peers, principals, parents, and other professionals or para-professionals within the school, school board, and community.
2. **Respect for Vulnerable Persons**
 - Respects and recognizes ethical obligations toward vulnerable persons. This principle recognizes that students are in a vulnerable position and that student teachers are in a privileged relationship with students and their families and will always refrain from exploiting that relationship in any form or manner.
 3. **Respect for Confidentiality and Privacy**
 - Respects the confidential nature of all information related to students and their families and will share such information in an appropriate manner only with those directly concerned with their welfare.
 - Respects the confidential nature of all information related to all school personnel and will share such information in an appropriate manner.
 4. **Respect for Justice**
 - Respects and recognizes the right of individuals to be treated with fairness and equity and the importance of avoiding conflicts of interest.
 5. **Respect for Safety of Students**
 - Respects the right of individuals to expect that student teachers will engage in practices that aim to ensure the physical, psychological, and emotional safety of students.
 6. **Respect for Existing Ethical Codes and Professional Standards**
 - Respects the authority, roles, and responsibilities of the cooperating teacher, and agrees to adhere to the responsibilities and obligations for teachers as outlined in the Education Act, Faculty, and University handbooks as well as all local agreements by host school boards and schools.
 7. **Balancing Harm and Benefits**
 - Acknowledges that any potentially harmful practices (e.g., science labs and physical education activities) must be balanced with anticipated benefits and conducted in a prudent, informed manner.

5.7.5.5 Putting Principles into Practice: Venues for Communication

More than one principle may apply to a given case or situation. For meaningful and effective implementation of these principles, they must be widely communicated and applied in appropriate contexts.

5.8 Department of Educational and Counselling Psychology

5.8.1 Location

Faculty of Education
3700 McTavish Street, Room 614
Montreal, Quebec H3A 1Y2

Telephone: 514-398-4242

Fax: 514-398-6968

Website: www.mcgill.ca/edu-ecp

5.8.2 About the Department of Educational and Counselling Psychology

Educational Psychology encompasses a) the theoretical and applied study of learning, cognition, and instruction in a variety of educational settings across ages and domains; b) instructional technology and computers as cognitive tools in learning; c) cognitive and social processes in learning; d) evaluation and enhancement of learning and teaching; e) methods for fostering inclusive education; f) relationships of phenomena related to teaching, learning, and assessment in human development; and g) the impact of family and community on children's learning and development.

At the undergraduate level, the Department of Educational and Counselling Psychology is responsible for the B.A.; see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.16: Educational Psychology](#)* for more information and for a variety of undergraduate courses in the areas of learning, cognition and development, inclusive education, gifted education, educational media and computers, and educational measurement and evaluation.

In professional development, the Department offers diploma or certificate programs in Human Relations and Family Life Education, Inclusive Education, and First Nations and Inuit Student Personnel Services. For more information, please consult our website, www.mcgill.ca/edu-ecp/programs/prodev, or contact the Undergraduate Program Coordinator in Educational and Counselling Psychology:

Dean Thomson
Undergraduate Program Coordinator
Telephone: 514-398-4248
Email: dean.thomson@mcgill.ca

At the graduate level, the Department of Educational and Counselling Psychology offers Master's degrees (M.A.) in Counselling Psychology, with major concentrations in Project (Research-based) or Professional/Internship (Practitioner-based) and in Educational Psychology with streams in Health Professions Education, Human Development, Learning Sciences, and School/Applied Child Psychology. Also offered are Master's of Education degrees (M.Ed.) in Educational Psychology with streams in General Educational Psychology, Inclusive Education, and Learning Sciences. Students can also obtain doctoral degrees (Ph.D.) in Counselling Psychology, School/Applied Child Psychology, and Educational Psychology with streams in Human Development or Learning Sciences. The Department also offers a Postdoctoral Degree Graduate Diploma in School/Applied Child Psychology and a Graduate Certificate in Counselling Applied to Teaching. For further information, consult the Graduate and Postdoctoral Studies *Programs, Courses and University Regulations* publication available at www.mcgill.ca/study.

Special services offered by the Department include the School and Counselling Psychology Clinic and the International Centre for Youth Gambling and High-Risk Behaviour.

5.8.3 Department of Educational and Counselling Psychology Faculty

Emeritus Professors

Mark W. Aulls; B.S.(Ball St.), M.Ed.(Ind.), Ph.D.(Georgia)
Janet G. Donald; B.A., M.A.(W. Ont.), Ph.D.(Tor.) (*joint appt. with Teaching and Learning Services*)
Florent R. Dumont; A.B.(Col.), M.S.(S. Conn. St.), Ed.D.(Mass.)
Carl H. Frederiksen; B.A.(Harv.), M.A., Ph.D.(Ill.)
Lynn McAlpine; B.A.(McG.), M.A.(C'dia.), Ph.D.(Tor.)
Bruce M. Shore; B.Sc., M.A.(McG.), Ph.D.(Calg.)

Professors

Roger Azevedo; B.A., M.A.(C'dia), Ph.D.(McG.), (*Canada Research Chair, Tier 1*)
Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)
Jacob A. Burack; B.A.(Col.), M.S., M.Phil., Ph.D.(Yale)
Jeffrey L. Derevensky; B.A.(C. W. Post), M.A., Ph.D.(McG.)
Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor.) (*James McGill Professor*)
Susanne P. Lajoie; B.A., M.A.(McG.), Ph.D.(Stan.), (*Canada Research Chair, Tier 1*)
Alenoush Saroyan; B.A.(Pahlavi), M.Ed.(Loyola-Ill.), Ph.D.(McG.)
Cynthia B. Weston; B.A.(G'town), M.L.S.(SUNY), D.Ed.(Wash.) (*joint appt. with Teaching and Learning Services*)

Associate Professors

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.)
Martin Drapeau; B.A.(Montr.), B.A.Ps.(UQTR), M.P.(Laval), Ph.D.(Montr.)
Marilyn Fitzpatrick; B.A.(Tor.), M.Ed., Ph.D.(McG.)
Michael L. Hoover; B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)
Krista Muis; B.A.(Wat.), M.A.(Vic., BC), Ph.D.(S. Fraser)
Robert Savage; B.A.(Oxf.), M.Sc.(Camb.), M.Sc., Ph.D.(Lond.) (*William Dawson Scholar*)
Steven R. Shaw; B.S., M.Ed., Ed.S., Ph.D.(Flor.)
Ada L. Sinacore; B.A.(Montclair St.), M.A., M.Ed., Ph.D.(Col.)
Ingrid E. Sladeczek; B.A., M.S., Ph.D.(Ariz.), A.A.(Md.)
Lisa Spanierman; B.Sc.(Flor.), M.A., Ed.M.(Col.), Ph.D.(Missouri)
Ronald Stringer; B.Sc., M.A., Ph.D.(Tor.)

Associate Professors

Victoria Talwar; M.A.(St. And.), M.A., Ph.D.(Qu.) (*Canada Research Chair, Tier 2*)

Assistant Professors

Armando Bertone; B.A., M.A.(C'dia), M.Ps., Ph.D.(Montr.)

Tara Flanagan; B.A.(Winn.), M.A., Ph.D.(McG.)

Nathan Hall; B.A., M.A., Ph.D.(Manit.)

Annett Körner; M.A., Ph.D.(Leipzig)

Jessica Ruglis; B.S.(Albany), M.A.T.(Union Coll.), M.P.H.(Hunter), Ph.D.(CUNY)

Nathan Smith; M.Sc., Ph.D.(VCU)

Faculty Lecturer

Jack de Stefano; B.A.(Loyola), M.Ed., Ed.D.(McG.)

Associate Member

Reut Gruber; B.A., M.A., Ph.D.(Tel Aviv)

Associate Professor (Non-Tenure Track)

Marcia Delcourt; B.S.(Bloomsburg St.), M.A., Ph.D.(Conn.) (*part-time*)

Adjunct Professors

Dermot Bowler

Karen Cohen-Gazith

Yves de Roten

Thomas Goetz

Judith Gradinger

Calvin Kalman

Katherine Moxness

Judith Norton

Rhoda Root

Erica Shoshana Ross

Anastassios Stalikas

Jessica Toste

Helen-Maria Vasiliadis

Harold Wynne

Research Associates

Rina Gupta

Jasvinder Magon

Diana Tabatabai

Laura Winer

5.9 Department of Integrated Studies in Education**5.9.1 Location****Faculty of Education**

3700 McTavish Street, Room 244
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Website: www.mcgill.ca/dise

Undergraduate Programs:

Telephone: 514-398-4527

Fax: 514-398-4529

Graduate and Certificate Programs:

Telephone: 514-398-7149

Fax: 514-398-4529

5.9.2 About the Department of Integrated Studies in Education

The Department of Integrated Studies in Education, created in September 2001, incorporates the programs and staff previously associated with the Departments of Culture and Values in Education, Educational Studies, Second Language Education, and First Nations and Inuit Education.

The Department offers four-year programs for CEGEP graduates and five-year programs for out-of-province students leading to a B.Ed. degree.

For B.Ed. program overviews, see www.mcgill.ca/dise/progs.

5.9.3 Department of Integrated Studies in Education Faculty

Chair

Ralf St. Clair

Director of Undergraduate Programs

Caroline Riches

Director of B.Ed. Kindergarten and Elementary Program

Beverly Baker

Director of Graduate Programs

Lise Winer

Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)

Thomas A. Francoeur; B.A., Lic.Ped., D.Ed.(Montr.), M.A.(Ott.), Dip.Past.Theol.(Brussels)

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russell Sage), Ed.D.(Col.) (*William C. Macdonald Emeritus Professor of Education*)

John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)

Norman Henchey; B.A., B.Ped., Lic.Ped.(Montr.), Ph.D.(McG.)

Denise Lussier; B.A.(Coll. Jésus-Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (*Post-retirement*)

Jacques J. Rebuffot; B.ès L., L.ès L., D.E.S.(Aix-Marseille), Dip. I.E.P., Dr. 3rd Cy.(Strasbourg)

Bernard Shapiro; B.A.(McG.), M.A.T., Ed.D.(Harv.)

David C. Smith; B.Ed., M.A.(McG.), Ph.D.(Lond.), F.C.C.T., F.R.S.A.

R. Lynn Studham; N.D.D.(Sunderland), A.R.A.(Royal Acad., Copen.), M.A.(E. Carolina), C.S.G.A., S.C.A.

John R. Wolforth; B.Sc.(Sheff.), M.A., Ph.D.(Br. Col.)

Professors

Lynn Butler-Kisber; B.Ed., M.Ed.(McG.), Ed.D.(Harv.)

David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas)

Ratna Ghosh; C.M., B.A.(Calc.), M.A., Ph.D.(Calg.) F.R.S.C. (*William C. Macdonald Professor of Education*) (*James McGill Professor*)

Barry Levy; B.A., M.A., BRE(Yeshiva), Ph.D.(NYU)

Professors

Roy Lyster; B.A.(Regina), M.A.(Paris VII), B.Ed., M.Ed., Ph.D.(Tor.)
 Mary H. Maguire; B.A., B.Ed., M.A.(Montr.), M.Ed., Cert. Reading(McG.), Ph.D.(Ariz.)
 Claudia A. Mitchell; B.A.(Bran.), M.A.(Mt. St. Vin.), Ph.D.(Alta.) (*James McGill Professor*)
 Anthony Paré; B.Ed, M.Ed., Ph.D.(McG.)
 Ralf St. Clair; Dipl.(Moray House), M.Sc.(Heriot-Watt), Ph.D.(Br. Col.)
 Lise Winer; B.A.(Pitt.), M.A.(Minn.), Cert. Ped.(C'dia), Ph.D.(West Indies)

Associate Professors

Helen Amoriggi; B.Sc., M.A.(Rhode Is.), Ed.D.(Boston)
 Fiona Benson; B.A.(Ott.), M.Ed., Ph.D.(McG.)
 Jon G. Bradley; B.A., M.A.(Sir G. Wms.)
 Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)
 Steven Jordan; B.A.(Kent), M.Sc.(Lond.), Ph.D.(McG.)
 Bronwen Low; B.A.(Qu.), M.A.(Br. Col.), Ph.D.(York)
 Kevin McDonough; B.A., B.Ed., M.Ed.(Alta.), Ph.D.(Ill.)
 Ronald Morris; B.Ed., M.A., Ph.D.(McG.)
 Caroline Riches; B.A., M.Sc.(Alta.), Ph.D.(McG.)
 Mela Sarkar; B.A.(McG.), M.A., Ph.D.(C'dia)
 Gale Seiler; B.Sc.(Fairleigh Dickinson), M.Sc.(Montana), Ph.D.(Penn.)
 Shaheen Shariff; B.A., M.A., Ph.D.(S. Fraser)
 Doreen Starke-Meyerring; B.Ed.(Potsdam), M.A.(N. Dakota), Ph.D.(Minn.)
 Teresa Strong-Wilson; B.A.(Calg.), B.A., Dip.Ed.(McG.), M.A., Ph.D.(Vic., BC)
 Georges Terroux; B.A.(Montr.), M.A.(Essex), Ph.D.(Montr.) (*Post-retirement*)
 Carolyn E. Turner; B.A.(Ariz.), M.Ed., Ph.D.(McG.)
 Boyd White; B.A.(Sir G. Wms.), B.F.A.(C'dia), M.F.A.(Inst. Allende, Guanajuato), Ph.D.(C'dia)
 Elizabeth Wood; B.F.A.(York), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.)

Assistant Professors

Anila Asghar; M.S.(Punjab), M.A.(Col.), M.Ed., Ed.D.(Harv.)
 Spencer Boudreau; B.A.(Don Bosco), B.A., M.A.(Sher.), Ph.D.(C'dia)
 Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)
 Kara Jones Jackson; B.A.(Bates Col.), M.A., Ph.D.(Penn.)
 Marta Kobiela; B.S., M.S. (Texas A&M), Ph.D.(Vanderbilt)
 Connie Morrison; B.A., B.Ed.(New Br.), M.Ed., Ph.D.(Nfld.)
 Annie Savard; B.Ed., M.A., Ph.D.(Laval)
 Sylvia Sklar; Dip.Ed.(McG.), B.A.(C'dia), M.Ed.(McG.)
 Paul Zanazanian; B.A., M.A.(McG.), Ph.D.(Montr.), Post Doc(Laval)

Associate Member

Adrienne Carey Hurley; B.A.(Colo.), M.A.(Mich.), Ph.D.(Calif.)

Faculty Lecturers

Beverly Baker; B.A., B.Com.(St. Mary's), B.Ed.(McG.), M.A.(C'dia), Ph.D.(McG.)
 Charlotte Hussey; B.A.(Wheaton), M.A.(C'dia), M.F.A.(W. Wilson), Ph.D.(McG.)

Faculty Lecturers

Donna-Lee Smith; B.A., M.A.(C'dia)

Lisa Trimble; B.A.(W. Laur.), M.A.(McG.)

5.9.4 Overview of Programs (Integrated Studies in Education)

The following is an overview of programs offered by the Department of Integrated Studies in Education.

5.9.4.1 Bachelor of Education: Secondary Program (120 credits)

The aim of the B.Ed. Secondary program is to prepare strong beginning teachers for the secondary school level. This integrated 120-credit program (150 credits for out-of-province students) consists of academic studies to provide background depth in subjects taught in the secondary school, professional studies centred on school-based practicum, supported by studies in pedagogy, curriculum, and educational foundations. Students choose their teaching profiles from: English, Mathematics, Science and Technology, and Social Sciences (History and Citizenship, and one of Geography or Ethics and Religious Culture). Students applying to the B.Ed. Secondary in the areas of Mathematics or Science and Technology, depending on their academic record, may be required to complete additional courses in order to gain the appropriate subject area background.

5.9.4.2 Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program (137 credits)

This program provides students with the opportunity to obtain a Bachelor of Music degree and a Bachelor of Education degree concurrently. The two degrees are awarded during the same convocation period. Students who have completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a program requiring the completion of 137 credits.

5.9.4.3 Concurrent Bachelor of Science/Bachelor of Education (Secondary) (135 credits)

New students are no longer being admitted to this program.

This program provides students with the opportunity to attain a Bachelor of Science degree and a Bachelor of Education degree concurrently. The two degrees are awarded during the same convocation period. Students who have completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a program requiring the completion of 135 credits.

5.9.4.4 Bachelor of Education (Kindergarten and Elementary) (120 credits)

This program leads to certification to teach children between the ages of five and 11 years. It consists of four years of full-time study requiring the completion of 120 credits (150 credits or five years for out-of-province students) of academic and professional courses.

Options within the B.Ed. (Kindergarten and Elementary) program are:

- First Nations and Inuit Studies
- Jewish Studies
- Pédagogie de l'immersion française

5.9.4.5 Baccalauréat en enseignement du français langue seconde (120 credits) (B.Ed. TFSL)

New students are no longer being admitted to this program as of Fall 2011.

This four-year program (normally 120 credits or four years for students who have completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies) prepares specialist teachers to teach French as a second language, in Core French programs, immersion programs, intensive programs, and *classes d'accueil*, at both the elementary and the secondary levels. Offered by the Department of Integrated Studies in Education jointly with the *Université de Montréal* (www.mcgill.ca/dise/progs/tfsl/current).

5.9.4.6 Bachelor of Education in Teaching English as a Second Language (120 credits)

This program prepares specialist teachers to teach English as a second language at both the elementary level (including regular and intensive ESL) and the secondary level (including regular ESL and ESLA – English Second Language Arts). This integrated 120-credit program (150 credits for out-of-province students) consists of academic and professional components. The academic components provide students with opportunities to develop a broad liberal education and to study language and language learning from linguistic, social, cultural, and psychological perspectives. The professional components revolve around school-based Field Experiences, which are supported by studies in pedagogy and educational foundations.

5.9.4.7 Graduate Programs

At the graduate level, the Department offers M.A. programs with thesis and non-thesis options in the following areas: Education and Society, Educational Leadership, and Second Language Education.

The Department offers a Master of Arts in Teaching and Learning (MATL), leading to teacher certification at the secondary level for those meeting specific criteria. See www.mcgill.ca/dise/progs/matl/prospective.

The Department also offers graduate certificates in Leadership and Teaching English as a Second Language. See www.mcgill.ca/dise/grad.

5.9.4.8 In-Service Programs

The Department of Integrated Studies in Education offers a number of in-service programs through First Nations and Inuit Education: a Certificate in Education for First Nations and Inuit; a Certificate in Aboriginal Literacy Education; a Certificate in Middle School Education in Aboriginal Communities; a Certificate in First Nations and Inuit Educational Leadership; a Certificate in Aboriginal Education for Certified Teachers; a Certificate in First Nations and Inuit Student Personnel Services; and a Bachelor of Education for Certified Teachers.

5.9.5 Bachelor of Education (B.Ed.) - Secondary English (120 credits)

The Bachelor of Education (B.Ed.) - Secondary English program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

The Secondary English program provides students with the learning opportunities needed to become proficient English teachers.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory level courses in English, as well as to explore areas that are not normally taken as teachable subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes English literature courses that may be used toward the academic component of the Secondary English course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

CEAP 250*	(3)	Research Essay & Rhetoric
EDEC 203*	(3)	Communication in Education
EDEM 220	(3)	Contemporary Issues in Education
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 226	(3)	American Literature 2
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
RELG 207	(3)	The Study of World Religions 1

Required Courses (45 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)

EDES 350	(3)	Classroom Practices (Secondary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Secondary Teaching Methods - English

6 credits:

EDES 361	(3)	Teaching Secondary English 1
EDES 461	(3)	Teaching Secondary English 2

Secondary English Subject Area (54 credits)

Note: Students selecting 18 credits of English as their second 'teachable subject' will take EDES 361 Teaching Secondary English 1 (3 credits) to count as an elective in their program.

Option 1

54 credits distributed as follows:

Required Course (3 credits)

EDES 366	(3)	Literature for Young Adults

Complementary 'Language/Linguistics' courses (6 credits)

CEAP 250*	(3)	Research Essay & Rhetoric
EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1

*Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

Complementary Courses

45 credits selected from the English Department undergraduate complementary course list (www.mcgill.ca/english/undergrad/complementary-courses/) distributed as follows (including at least one course in Shakespeare):

Literature (33 credits)

A minimum of 15 credits must be at the 300 level or higher

Cultural Studies (9 credits)

At least 3 credits must be at the 300 level or higher

Drama/Theatre (3 credits)**Option 2 (54 credits)**

54 credits distributed as follows:

Required Course (3 credits)

EDES 366	(3)	Literature for Young Adults

Complementary 'Language/Linguistics' courses. (6 credits)

Select 6 credits from the following course list:

CEAP 250*	(3)	Research Essay & Rhetoric
EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1

*Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

Complementary Courses

27 credits selected from the English Department undergraduate complementary course list (www.mcgill.ca/english/undergrad/complementary-courses/), distributed as follows (including at least one course in Shakespeare):

Literature (18 credits)

A minimum of 6 credits at the 300 level or higher.

Cultural Studies (6 credits)

A minimum of 3 credits at the 300 level or higher

Drama/Theatre (3 credits)

Second "Teachable" Subject Area (18 credits)

18 credits of of designated courses in a second "teachable" subject area (e.g., Mathematics, Social Sciences, Science courses, selected in consultation with an advisor).

Students must also take the corresponding 3 credits of Secondary Teaching Methods in for the second "teachable" subject area

Note: this additional Methods course counts as a 3 credit elective in the program.

English as Second "Teachable" Subject Area (18 credits)

Students in the Secondary Mathematics program who select English as their second "teachable" subject area follow the requirements below:

Required Course (3 credits)

EDES 366	(3)	Literature for Young Adults

Language Course (3 credits)

CEAP 250*	(3)	Research Essay & Rhetoric
EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1

Note: students may select either EDEC 203 or CEAP 250

Complementary Courses (12 credits)

12 credits selected from the English Department undergraduate complementary course list (www.mcgill.ca/english/undergrad/complimentary-courses/). A minimum of 6 credits at the 300 level or higher

Literature (6 credits)

Cultural Studies (3 credits)

Drama/Theatre (3 credits)

5.9.6 Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits)

The Bachelor of Education (B.Ed.) – Secondary Mathematics program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

The Secondary Mathematics program provides students with the learning opportunities needed to become proficient Mathematics teachers.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in Mathematics, as well as to explore areas that are not normally taken as teachable subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

Students in the Secondary Mathematics program must complete three Math prerequisite courses in their Freshman year, MATH 133, MATH 140, and MATH 141.

In addition, students select courses from the recommended list below or other courses in consultation with the Program Adviser. The French Second Language (FRSL) courses suggested require a placement test to determine the appropriate course level.

CEAP 250	(3)	Research Essay & Rhetoric
EDEM 220	(3)	Contemporary Issues in Education
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1

Required Courses (45 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education

EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Secondary Teaching Methods - Mathematics

6 credits:

Note: Students selecting 18 credits of Secondary Mathematics courses as their other "teachable" subject will take 3 credits of Mathematics Secondary Teaching Methods courses to count as an elective in their program.

EDES 353	(3)	Teaching Secondary Mathematics 1
EDES 453	(3)	Teaching Secondary Mathematics 2

Secondary Mathematics Subject Area (54 credits)

Secondary Mathematics students complete 54 credits selected in consultation with the Program Adviser in one of two options. They are expected to have completed the prerequisite courses MATH 133, MATH 140, and MATH 141 or their equivalents. Freshman students will take them as part of their Freshman program.

Students entering from CEGEP should only choose this program if they have a strong background in their CEGEP Mathematics courses. The 100-level prerequisite courses (MATH 133, MATH 140, and MATH 141) are considered CEGEP level and only students entering a five-year program (out-of-province and directly from high school) are eligible to take them. Students entering with Advanced Standing without having completed these prerequisites will be required to make up any deficiencies in these courses over and above the degree requirements.

Option 1

27 credits from the list of "Required Mathematics Courses" and

27 credits from the list of "Complementary Mathematics Courses"

Or

Option 2:

27 credits from the list of "Required Mathematics Courses" and

9 credits from the list of "Complementary Mathematics Courses"

And

18 credits of designated courses in another "teachable" subject area (English, Social Sciences, or Science and Technology - see these Secondary Education programs for courses)

Students must also take:

3 credits of Secondary Teaching Methods for the teachable subject area

(Note: This additional Methods course counts as a 3-credit elective in the program.)

Students in the English Secondary Profile who select Mathematics as their other "teachable subject area" take:

18 credits from the list of "Mathematics Courses for Other Secondary Subject Areas"

And

3 credits of "Secondary Teaching Methods - Mathematics"

(Note: This additional Methods course counts as a 3-credit elective in the program.)

Required Mathematics Courses

27 credits for Secondary Mathematics Option 1 and Option 2 students

Note: Students with Mathematics as their "other teachable subject area" select from the list of "Mathematics Courses for Students in Other Secondary Subject Areas".

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 338	(3)	History and Philosophy of Mathematics
MATH 348	(3)	Topics in Geometry

Complementary Mathematics Courses

27 credits from the list below for Secondary Mathematics Option 1 students or

9 credits from the list below for Secondary Mathematics Option 2 students

Note: Students with Mathematics as their "other teachable subject area" select from the list of "Mathematics Courses for Students in Other Secondary Subject Areas".

COMP 202	(3)	Foundations of Programming
COMP 230	(3)	Logic and Computability
EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science
MATH 236	(3)	Algebra 2
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 316	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Structures 2
MATH 346	(3)	Number Theory
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

Mathematics Courses for Students in Other Secondary Subject Areas

Students in other secondary subject areas selecting Mathematics as their "other teachable subject area" take the following 18 credits.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 348	(3)	Topics in Geometry

Electives (6 credits)

6 credits of electives

Note: Students who have chosen to do 36 credits in one teachable subject and 18 credits in another will use 3 credits of electives to take the Secondary Teaching Methods course needed for their second teachable subject.

5.9.7 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture (120 credits)

The Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

The Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in the associated disciplinary areas.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in a teachable subject area, as well as to explore areas that are not normally taken as within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes History, Geography and Religious Studies courses that may be used toward the academic component of the Secondary Social Sciences course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

CEAP 250	(3)	Research Essay & Rhetoric
EDEM 220	(3)	Contemporary Issues in Education
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867

HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 252	(3)	Hinduism and Buddhism

Required Courses (45 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Secondary Teaching Methods - Social Sciences

6 credits:

EDER 372	(3)	Ethics and Religious Culture (Secondary)
EDES 334	(3)	Teaching Secondary Social Studies 1

Secondary Social Sciences - History & Citizenship, Ethics & Religious Culture Subject Area (54 credits)

Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture students complete 54 credits selected in consultation with the Program Adviser with the following specifications:

36 credits of History and Citizenship courses distributed as follows:

9 credits of "Required History" courses

and

27 credits "Complementary History" distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

9 credits at the 300 or 400 level of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

And

18 credits chosen from the Ethics and Religious Culture course list as specified below.

Required History

9 credits:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303*	(3)	History of Quebec
HIST 353*	(3)	History of Montreal

* Note: Students select either HIST 303 or HIST 353.

Complementary Courses

6-12 credits selected from the following list. Students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI):

ANTH 338	(3)	Native Peoples of North America
CANS 200	(3)	Introduction to the Study of Canada
ECON 199	(3)	FYS: Aspects of Globalization
ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 341	(3)	Economic History of a World Area
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Ethics and Religious Culture

18 credits as specified below.

6 credits from:

* Note: Either EDER 309 or RELG 204 may be selected but not both.

EDER 309*	(3)	The Religious Quest
RELG 204*	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 252	(3)	Hinduism and Buddhism

6 credits from:

EDER 209	(3)	Search for Authenticity
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues

6 credits from:

CATH 200	(3)	Introduction to Catholicism
EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 319	(3)	Teaching the Holocaust
EDER 394	(3)	Philosophy of God

REL.G 270 (3) Religious Ethics and the Environment

Electives (6 credits)

6 credits:

5.9.8 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography (120 credits)

Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

The Secondary Social Sciences - History and Citizenship, Geography program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in History and Geography.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in a teachable subject area, as well as to explore areas that are not normally taken within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes History, Geography, and Religious Studies courses that may be used toward the academic component of the Secondary Social Sciences course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

CEAP 250	(3)	Research Essay & Rhetoric
EDEM 220	(3)	Contemporary Issues in Education
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 214	(3)	Introduction to European History
HIST 215	(3)	Modern European History
REL.G 204	(3)	Judaism, Christianity and Islam
REL.G 207	(3)	The Study of World Religions 1
REL.G 252	(3)	Hinduism and Buddhism

Required Courses (45 credits)

EDEC 201 (1) First Year Professional Seminar

EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers, and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Secondary Teaching Methods - Social Sciences

6 credits:

EDES 334	(3)	Teaching Secondary Social Studies 1
EDES 434	(3)	Teaching Secondary Social Studies 2

Secondary Social Sciences - History and Citizenship, Geography Subject Area (54 credits)

Secondary Social Sciences - History and Citizenship, Geography students complete 54 credits selected in consultation with the Program Adviser with the following specifications:

36 credits of History and Citizenship courses

9 credits of "Required History" courses from the list

and

27 credits "Complementary History" distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American or Ancient History

9 credits at the 300 or 400 level of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

and

18 credits of Geography chosen from the "Geography" course list or chosen from the courses that comprise the B.A. Minor Concentration Geography program.

Required History

9 credits selected from:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303*	(3)	History of Quebec
HIST 353*	(3)	History of Montreal

* Note: Students select either HIST 303 or HIST 353.

Complementary Courses

6-12 credits selected from the following list. Students must choose a minimum of 3 credits of ECON and a minimum of 3 credits of POLI

ANTH 338	(3)	Native Peoples of North America
CANS 200	(3)	Introduction to the Study of Canada
ECON 199	(3)	FYS: Aspects of Globalization
ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 341	(3)	Economic History of a World Area
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour

POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Geography

18 credits from:

ENVR 202	(3)	The Evolving Earth
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 331	(3)	Urban Social Geography

Note: In consultation with the Program Adviser, students may choose their Geography courses from those that comprise the B.A. Minor Concentration Geography program.

Electives (6 credits)

6 credits

5.9.9 Bachelor of Education (B.Ed.) - Secondary Science and Technology (120 credits)

The Bachelor of Education (B.Ed.) - Secondary Science and Technology program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

The Secondary Science and Technology program provides students with the subject matter expertise in the Living World, Earth and Space, the Material World, and the Technological World needed to teach the secondary science curriculum in Quebec schools.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program - Basic Sciences

Students who start their Education program in U0 normally complete 30 credits in their Freshman year.

Freshmen in the Science and Technology program must complete the 29 to 30 credits of Basic Science courses listed below in their first year of studies.

Fall term: BIOL 111, CHEM 110, MATH 139 or MATH 140 or MATH 150, PHYS 101 or PHYS 131

Winter term: BIOL 112, CHEM 120, MATH 141 or MATH 151, PHYS 102 or PHYS 142

Students should consult a program adviser for guidance on which fall and winter term Math and Physics courses should be taken. Course choices depend on a student's background in science and plans for upper-level Physics courses.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B
PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Freshman Program - Complementary

For Freshman students with Advanced Standing in one or more of the basic sciences, the Faculty also recommends some of the courses listed below. French Second Language (FRSL) courses require a placement test to determine the course level.

CEAP 250	(3)	Research Essay & Rhetoric
EDEM 220	(3)	Contemporary Issues in Education
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1

Required Courses (45 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation

EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Secondary Teaching Methods - Science and Technology

6 credits

EDES 335	(3)	Teaching Secondary Science 1
EDES 435	(3)	Teaching Secondary Science 2

Secondary Science and Technology (54 credits)

54 credits in designated science courses selected to provide subject matter expertise in the four areas of:

- the Material World
- Earth and Space
- the Living World
- the Technological World

Note: Students entering this program from CEGEP should have completed the basic science equivalents in CEGEP. The 100-level basic sciences are considered CEGEP level and only students entering a five-year program (out-of-province and directly from high school) are eligible to take them. Students entering with advanced standing without having completed these prerequisites (or their equivalents) will be required to make up any deficiencies in these courses over and above the degree requirements.

Overview of the 54 credits for the program:

A minimum of 12 credits at the 300-level or above;

39 credits of courses across the four subject areas:

- 3 credits of Statistics
- 3 credits of History of Science
- 9 credits minimum from courses on the Living World

- 9 credits minimum from courses on Earth and Space
- 9 credits minimum from courses on the Material World
- 6 credits minimum from courses on the Technological World

15 credits of complementary courses either spread across the four subjects areas or concentrated in one subject area. Students who plan to teach Grade 11 Chemistry or Physics should concentrate their 15 complementary credits in the Material World.

All students need to plan their course selections with attention to the prerequisites.

Statistics

3 credits:

MATH 203	(3)	Principles of Statistics 1

History of Science

3 credits:

EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science

The Living World - Required

6 credits:

* Note: Students select either BIOL 200 or LSCI 202, but not both.

BIOL 200*	(3)	Molecular Biology
BIOL 206	(3)	Methods in Biology of Organisms
LSCI 202*	(3)	Molecular Cell Biology

The Living World - Complementary

Students select a minimum of 3 credits to a maximum of 15 credits from courses on the Living World in the areas of:

Cell and Molecular Biology

Human and Organismal Biology

Populations, Ecosystems, and Evolution

The Living World - Cell and Molecular Biology

BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 313	(3)	Eukaryotic Cell Biology

The Living World - Human and Organismal Biology

BIOL 205	(3)	Biology of Organisms
EDKP 292	(3)	Nutrition and Wellness
EDKP 395	(3)	Exercise Physiology
NUTR 207	(3)	Nutrition and Health
NUTR 307	(3)	Human Nutrition
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

The Living World - Populations, Ecosystems, and Evolution

BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 240	(3)	Monteregian Flora
BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 352	(3)	Vertebrate Evolution
ENVB 305	(3)	Population & Community Ecology
EPSC 334	(3)	Invertebrate Paleontology

Earth and Space - Complementary

Students select a minimum of 9 credits to a maximum of 24 credits from courses on Earth and Space with the following specifications:

a minimum of 6 to a maximum of 21 credits from Earth and Space

a minimum of 3 to a maximum of 18 credits from Environment

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 203	(3)	Structural Geology
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 221	(3)	General Geology
EPSC 225	(1)	Properties of Minerals
EPSC 233	(3)	Earth and Life History
EPSC 320	(3)	Elementary Earth Physics
EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 350	(3)	Tectonics
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 272	(3)	Earth's Changing Surface
GEOG 321	(3)	Climatic Environments
PHYS 214	(3)	Introductory Astrophysics

Earth and Space - Environment

ENVR 200	(3)	The Global Environment

ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 221	(3)	Environment and Health

The Material World - Required

Students complete 9 credits of required courses on the Material World as specified below.

CHEM 281	(3)	Inorganic Chemistry 1

One of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 223	(2)	Introductory Physical Chemistry 1

One of :

CHEM 211	(3)	Organic Chemistry 1 Lectures
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 232	(4)	Organic Chemistry Principles

The Material World - Complementary

Students select 0 to 15 credits of complementary courses on the Material World.

* Note: If CHEM 287 is selected, CHEM 297 must also be taken.

CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 287*	(2)	Introductory Analytical Chemistry
CHEM 297*	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 319	(3)	Chemistry of Energy, Storage and Utilization
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
MATH 222	(3)	Calculus 3
PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1

PHYS 258	(3)	Experimental Methods 2
PHYS 271	(3)	Introduction to Quantum Physics
PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 436	(3)	Modern Physics
PHYS 439	(3)	Majors Laboratory in Modern Physics
PHYS 446	(3)	Majors Quantum Physics

The Technological World

Students select a minimum of 6 credits to a maximum of 15 credits from courses on the Technological World.

* Note: Students may take either COMP 102 or COMP 280, but not both.

** Note: Credit will not be given for COMP 102 if it is taken concurrently with or after COMP 202.

COMP 102*	(3)	Computers and Computing
COMP 202**	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 280*	(3)	History and Philosophy of Computing
COMP 364	(3)	Computer Tools for Life Sciences
MATH 204	(3)	Principles of Statistics 2
PHYS 334	(3)	Advanced Materials

5.9.10 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Cell/Molecular with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Cell/Molecular Biology with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Cell/Molecular

- 18 credits of Minor Chemistry

- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)

EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses

25 credits selected as follows:

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology

Complementary Courses

At least 11 credits selected from:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading

BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses

15 credits selected as follows:

12 credits:

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.11 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Cell/Molecular with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Cell/Molecular Biology with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Cell/Molecular

- 18 credits of Minor Physics

- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.

2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.

3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.

4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science

CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education

EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses*

29 credits selected as follows:

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser. Regardless of the substitution, students must take at least 36 credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms

BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
CHEM 212*	(4)	Introductory Organic Chemistry 1

Complementary Courses

At least 7 credits selected from:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading
BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics

PHYS 224	(3)	Physics of Music
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.12 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs." and "Quebec Teacher Certification".

The Major Concentration Biology - Organismal with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Organismal Biology with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Organismal
- 18 credits of Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available

on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www.mcgill.ca/science/sousa/bsc/freshman>.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Organismal (36 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses

24 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Complementary Courses

12 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 373	(3)	Biometry
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses (15 credits)

15 credits selected as follows:

12 credits:

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.13 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Organismal with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Organismal Biology with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

70 credits of Science Component consisting of:

- 37 credits of Major Concentration Biology - Organismal
- 18 credits of Minor Physics
- 15 credits of Additional Science Courses

5 credits of Electives, of which at least 2 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System

MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman Year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)

EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Organismal (37 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses*

28 credits selected as follows:

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser. Regardless of the substitution, students must take at least 36 credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution

BIOL 308	(3)	Ecological Dynamics
CHEM 212*	(4)	Introductory Organic Chemistry 1

Complementary Courses

9 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 352	(3)	Vertebrate Evolution
BIOL 373	(3)	Biometry
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

Electives (5 credits)

5 credits, of which at least 2 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.14 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Chemistry with Minor Biology is one of the nine variations of the program and allows students to focus their Science degree in Chemistry with a subspecialization in Biology.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry
- 24 credits of the Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation

EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major concentration is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

18 credits

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Complementary Courses

18 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

Minor Biology (24 credits)

Required Courses

15 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

Complementary Courses

9 credits selected from the Biology Department's course offerings, at the 300 level or above.

Additional Science Courses (9 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.15 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Chemistry with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Chemistry with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry

- 18 credits of the Minor Physics

- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)

EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major concentration is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

18 credits selected as follows:

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Complementary Courses

18 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1

CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

Minor Physics (18 credits)**Required Course**

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.16 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Physics with Minor Biology is one of the nine variations of the program and allows students to focus their Science degree in Physics with a subspecialization in Biology.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Physics
- 24 credits of Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations

EDEC 261* (3) Philosophy of Catholic Education

Major Concentration Physics (36 credits)

The Major Concentration Physics is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

30 credits selected as follows:

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 334	(3)	Advanced Materials
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

Minor Biology (24 credits)

24-25 credits for the Minor Biology selected as follows:

15 credits of required courses

9-10 credits of complementary courses

Required Courses

15 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

Complementary Courses

9-10 credits of complementary courses, CHEM 212 and 6 selected from the Biology Department's course offerings, at the 300 level or above.

* Note: Students who have already taken CHEM 212 or its equivalent will choose another appropriate course, to be approved by the Adviser.

CHEM 212*	(4)	Introductory Organic Chemistry 1

Additional Science Courses (9 credits)

9 credits selected as follows:

6 credits:

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1

plus 3 credits, one additional Physics (PHYS) course approved by the Physics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.17 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Physics with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Physics with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Physics
- 18 credits of the Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUA) to obtain advice and approval of their course selection. Full details are available on the SOUA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Physics (36 credits)

The Major Concentration Physics is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

30 credits

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 334	(3)	Advanced Materials
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses (15 credits)

15 credits selected as follows:

9 credits

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

plus 3 credits, one additional Physics (PHYS) course approved by the Physics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.18 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Mathematics is one of the nine variations of the program and allows students to focus their Science degree in Mathematics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

54 credits of Science Component consisting of:

- 54 credits of the Major Mathematics

21 credits of Electives, of which at least 18 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDES 353	(3)	Teaching Secondary Mathematics 1
EDES 453	(3)	Teaching Secondary Mathematics 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)

EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Mathematics (54 credits)

Program Prerequisites

Students entering the Major program are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 54 credits for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses

27 credits

Where appropriate, Honours courses may be substituted for equivalent Major courses.

* Students select either MATH 249 or MATH 316 but not both.

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses

27 credits selected with the following specifications:

12 credits specifically required of students in the Concurrent B.Sc. and B.Ed. Major Mathematics:

COMP 202	(3)	Foundations of Programming
MATH 324	(3)	Statistics
MATH 338	(3)	History and Philosophy of Mathematics
MATH 348	(3)	Topics in Geometry

at least 3 credits from:

MATH 317	(3)	Numerical Analysis
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Structures 2

12 credits from:

It is highly recommended that students include MATH 318 and MATH 346 in their complementary courses.

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 346	(3)	Number Theory
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications

In consultation with an adviser, 3 of the 12 credits may be selected from other MATH courses or related disciplines.

Electives (21 credits)

21 credits of electives, of which at least 18 credits must be Science Electives chosen in consultation with the Science Adviser.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

5.9.19 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)

The Bachelor of Music (B.Mus.) - Major Music Education, when offered concurrently with the The Bachelor of Education - Major Music Elementary and Secondary, provides students with the opportunity to obtain a Bachelor of Music degree and a Bachelor of Education degree after the completion of 137

credits, normally five years (170 credits or six years for out-of-province students*). The concurrent program combines academic studies in music, professional studies, and field experience. The two degrees are awarded during the same convocation period.

* Out-of-province students or those who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program.

To be admitted to the Concurrent program, students must satisfy the regular admission requirements of the Schulich School of Music and Faculty of Education. Normally, students will be admitted to both components of the Concurrent Program simultaneously. Applicants who already hold a Bachelor of Music degree should apply to the Faculty of Education. Students who have completed 30 or more credits in a Bachelor of Music program, exclusive of the Freshman Year for out-of-province students, should apply for admission to the Concurrent program.

All applications for the Concurrent program are to be made to the Admissions Office of the Schulich School of Music.

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of the prospective music educator as a musician. This is achieved not only through core music history, theory, musicianship, and performance courses but also through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musician as an educator. This is achieved through courses in educational foundations, music pedagogy and pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

Students who decide to complete only a Bachelor of Music may transfer at any time into the Bachelor of Music, Faculty Program. Students who wish to complete only the Bachelor of Education Music program have the option of doing so after the successful completion of the first two years of the Concurrent Program and MUIN 283 "BMus Concentration Final Examination" or equivalent. They would be required to complete 61 music credits, 6 elective credits, and 55 education credits from the program given below.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary are as follows:

55 professional Education credits

70 Music academic credits

9 music elective credits

3 non-music elective credits

Program Prerequisites - Freshman Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of Non-Music Electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music, will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Music Components (49 credits)

49 credits of required Music courses distributed as follows:

25 credits of Music Education

11 credits of Theory

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Music Education

25 credits:

MUCT 235	(3)	Vocal Techniques
MUGT 215	(1)	Basic Conducting Techniques
MUGT 354	(3)	Music for Children
MUGT 358	(3)	General Music for Adults and Teenagers
MUGT 401	(3)	Issues in Music Education
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

Theory

11 credits:

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 461	(2)	Choral and Keyboard Arranging

Musicianship

4 credits:

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits:

MUHL 286	(3)	Critical Thinking About Music

Performance

6 credits:

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Music Components (21 credits)

21 credits of complementary Music courses distributed as follows:

9 credits of Music Education

2 credits of Musicianship

6 credits of Music History

4 credits of Performance

Music Education

3 credits, one of:

MUIT 201	(3)	String Techniques
MUIT 250	(3)	Guitar Techniques

3 credits, one of:

MUCT 315	(3)	Choral Conducting 1
MUIT 315	(3)	Instrumental Conducting

3 credits, select EDEA 362 or any course with a prefix of MUIT or MUGT.

EDEA 362	(3)	Movement, Music and Communication

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Music History

6 credits of courses with a MUHL or a MUPP prefix

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

MUEN 597 (2) Orchestral Ensembles

Electives (12 credits)

9 credits of free electives

3 credits of non-music electives

Required Education Courses (45 credits)

* Note: Students take either EDEE 355 or EDPE 304, but not both.

EDEA 206	(1)	1st Year Professional Seminar
EDEA 407	(3)	Final Year Professional Seminar Music
EDEA 442	(3)	Methods in Music Education 1
EDEA 472	(3)	Methods in Music Education 2
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEE 355*	(3)	Classroom-based Evaluation
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 205	(2)	First Field Experience (Music)
EDFE 208	(3)	Second Field Experience (Music)
EDFE 308	(8)	Third Field Experience (Music)
EDFE 407	(7)	Fourth Field Experience (Music)
EDPE 300	(3)	Educational Psychology
EDPE 304*	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students

Complementary Education Courses (10 credits)

10 credits distributed as follows:

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

1 credit from:

EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 254	(1)	Second Professional Seminar (Secondary)

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education

EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1
MUGT 301	(3)	Technology and Media for Music Education

5.9.19.1 Admissions to the Concurrent Bachelor of Music (Major Music Education) and Bachelor of Education in Music Program

Applicants without a completed Bachelor of Music degree who wish to pursue a teacher education degree specializing in Music should apply to the Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program. Students who have partially completed a Bachelor of Music program are eligible to apply for Advanced Standing in the Concurrent program.

Application to the Concurrent B.Mus./B.Ed. program may be made online at www.mcgill.ca/applying. Information is available on that site or may be obtained from:

Admissions Office
McGill University
Schulich School of Music
555 Sherbrooke Street West
Montreal, QC H3A 1E3
Telephone: 514-398-4546

Those who have completed a Bachelor of Music degree may apply for Advanced Standing in the Bachelor of Education in Music program in the Faculty of Education. Application to the Bachelor of Education in Music may be made online at www.mcgill.ca/applying. Information is available on that site or may be obtained from:

Enrolment Services
McGill University
Service Point
3415 McTavish Street
Montreal, QC H3A 0C8
Telephone: 514-398-7878
Fax: 514-398-5544

Program details are available from:

Professor Caroline Riches, Program Director
Telephone: 514-398-5793
Department of Integrated Studies in Education
Telephone: 514-398-4527

5.9.20 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education (120 credits)

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

The Kindergarten and Elementary Education program leads to certification to teach children between the ages of 5 and 11 years (kindergarten and elementary school). The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of the program provides a school-based practicum.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification."

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in elementary school, as well as to explore areas that are not normally taken as "teachable" subject area courses within B.Ed. programs (e.g. Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology). For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by "clicking on" the course CRN for registration. Check prerequisites before registering.

CEAP 250	(3)	Research Essay & Rhetoric
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
EDES 366	(3)	Literature for Young Adults
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
MATH 111	(3)	Mathematics for Education Students
RELG 207	(3)	The Study of World Religions 1

Required Courses (75 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 250	(2)	The Kindergarten Classroom
EDEE 260	(3)	Reading Methods - Early Childhood
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Teaching and Learning in the Elementary Classroom
EDEE 355	(3)	Classroom-based Evaluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (18 credits)

18 credits of courses selected as described below.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers, and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Ethics, Values, or Religion

3 credits from:

EDER 309	(3)	The Religious Quest
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 341	(3)	Introduction: Philosophy of Religion

Kindergarten and Elementary Teaching Methods - Art, Drama, or Music

3-6 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

Kindergarten & Elementary Teaching Methods - Physical Education or English Second Language

0-3 credits from:

Students may select both their Methods courses from the list above for Art, Drama, or Music.

* Note: Courses marked with an asterisk ("*") have EDSL 350 "Essentials of English Grammar" as a prerequisite.

EDKP 332	(3)	Physical Education Curriculum and Instruction
EDSL 330*	(3)	Literacy 1: Teaching Reading in ESL
EDSL 447*	(3)	Methods in TESL 1

Kindergarten & Elementary Education - Subject Areas (21 credits)

21 credits selected in consultation with the Program Adviser as follows:

12 credits in "teachable" subject area courses of the elementary school curriculum from the lists below for Art, English, Ethics and Religious Culture, French, Mathematics, Music, Natural Sciences, Physical Education, and Social Studies.

And

9 credits, 3 credits from each of any three subject areas not chosen above.

No more than 12 credits may be selected from any single course list.

Art

Students may select up to 12 credits from this list and from Art History (ARTH) courses.

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2
EDEA 241	(3)	Basic Art Media for Classroom
EDEA 296	(3)	Basic Design
EDEA 304	(3)	Painting 3
EDEA 305	(3)	Painting 4
EDEA 307	(3)	Drawing 2
EDEA 410	(3)	Aesthetics and Art for the Classroom
EDEA 496	(3)	Sculpture 1
EDEA 497	(3)	Sculpture 2

English

Students may select up to 12 credits from this list.

* Note: Starting with the 2009-2010 academic year, EDEE 325 Children's Literature is a required course for the Kindergarten and Elementary Education program and is included in the "Required Courses" list. Students admitted to the program in prior years may select this course as a teachable subject course for English.

CLAS 203	(3)	Greek Mythology
COMS 200	(3)	History of Communication
COMS 210	(3)	Introduction to Communication Studies
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
EDEE 325*	(3)	Children's Literature
EDES 366	(3)	Literature for Young Adults
EDSL 350	(3)	Essentials of English Grammar
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 225	(3)	American Literature 1
ENGL 226	(3)	American Literature 2
ENGL 227	(3)	American Literature 3
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 230	(3)	Introduction to Theatre Studies
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 279	(3)	Introduction to Film as Art

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 314	(3)	20th Century Drama
ENGL 345	(3)	Literature and Society
ENGL 347	(3)	Great Writings of Europe 1
ENGL 349	(3)	English Literature and Folklore 1
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

Ethics and Religious Culture

Students may select up to 12 credits from this list. Students may also choose other Religious Studies (RELG) courses with the permission of the Program Adviser.

* Note: Courses marked with an asterisk ("*") may be used as Ethics and Religious Culture courses or as Social Studies.

EDER 209	(3)	Search for Authenticity
EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 309	(3)	The Religious Quest
EDER 394	(3)	Philosophy of God
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 240*	(3)	The Holocaust
PHIL 200	(3)	Introduction to Philosophy 1
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
WMST 200*	(3)	Introduction to Women's Studies

French

Students may choose up to 12 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses.

Mathematics

Students may choose up to 12 credits of Mathematics (MATH) courses at the 200 level or higher.

Note: Students admitted with CEGEP mathematics (or equivalent) may not take MATH 111 for credit. MATH 111 is a recommended course for Freshman students.

MATH 111 (3) Mathematics for Education Students

Music

Students may choose up to 12 credits from this list. Students may also select any Music course with the MUGT, MUHL, MUIT, or MUCT subject codes. With the permission of the Program Adviser, students without a formal music background may choose courses with the MUAR subject code.

* Note: Courses marked with a single asterisk ("*") require permission from the Schulich School of Music to register.

EDEA 341	(3)	Listening for Learning
EDEA 352	(3)	Music Listening in Education
EDEA 362	(3)	Movement, Music and Communication
MUJZ 160*	(3)	Jazz Materials 1
MUJZ 161*	(3)	Jazz Materials 2

Natural Sciences

Students may choose up to 12 credits from this list.

ATOC 181	(3)	Introduction to Atmospheric Science
ATOC 182	(3)	Introduction to Oceanic Sciences
ATOC 184	(3)	Science of Storms
ATOC 185	(3)	Natural Disasters
BIOL 115	(3)	Essential Biology
CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs
EDEE 473	(3)	Ecological Studies
EDEE 474	(3)	Problems of the Environment
EPSC 180	(3)	The Terrestrial Planets
EPSC 181	(3)	Environmental Geology
EPSC 185	(3)	Natural Disasters
EPSC 201	(3)	Understanding Planet Earth
PHYS 180	(3)	Space, Time and Matter
PHYS 181	(3)	Everyday Physics
PHYS 182	(3)	Our Evolving Universe
PHYS 183	(3)	The Milky Way Inside and Out

Physical Education

Students may take up to 12 credits of Physical Education (EDKP) courses from the list with the permission of the Department of Kinesiology and Physical Education.

* Note: EDKP 292 is available as an academic Physical Education course. All other EDKP courses are restricted.

EDKP 204	(3)	Health Education
EDKP 205	(3)	Structural Anatomy
EDKP 206	(3)	Biomechanics of Human Movement
EDKP 224	(3)	Foundations of Movement Education
EDKP 261	(3)	Motor Development

EDKP 292*	(3)	Nutrition and Wellness
EDKP 391	(3)	Physiology in Sport and Exercise
EDKP 495	(3)	Scientific Principles of Training
EDKP 498	(3)	Sport Psychology

Social Studies

Students may take up to 12 credits from this list below which represents a balance of History (HIST), Geography (GEOG), and Citizenship courses offered by several departments. Anthropology (ANTH) and Sociology (SOCI) courses not on the list below may not be counted as Social Studies courses in the program requirements. Students may take them as electives only.

Students may select additional History courses as follows:

Any 3 credits in European History

Any 3 credits in Asian, African, or Latin American History

Any 3 credits in any topic or field of history

* Note: Courses marked with an asterisk ("*") may be used as Ethics and Religious Culture or Social Studies courses.

ANTH 202	(3)	Socio-Cultural Anthropology
CANS 200	(3)	Introduction to the Study of Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
JWST 240*	(3)	The Holocaust
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
WMST 200*	(3)	Introduction to Women's Studies

Electives (6 credits)

6 credits

5.9.21 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies (120 credits)

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies program requires 120 credits and leads to teacher certification. Interested applicants must contact the office of First Nations and Inuit Education for admission information; please call 514-398-4533.

Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of freshman courses (in addition to the 120 credit program) for a total of 150 credits. Students who are admitted as "mature students" are not required to complete the 30 credits of Freshman courses. These students are admitted to U1.

Please note that graduates of teacher education programs are recommended by the University for Quebec Certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in Elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.).

Students admitted to the First Nations and Inuit Studies program in U0 should consult with their program adviser for guidance on course selection. More information is also found for newly admitted students to the B.Ed. Kindergarten and Elementary Education program on the Faculty of Education website at <http://www.mcgill.ca/edu-dise/students/undergraduate/new/#KE>.

Required Courses (108 credits)

EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Language Requirement
EDEC 216	(0)	Aboriginal Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 260	(3)	Philosophical Foundations
EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 250	(2)	The Kindergarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 291	(3)	Cultural Values and Socialization
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language
EDEE 344	(3)	Advanced Inuktitut/Amerindian Language
EDEE 353	(3)	Teaching and Learning in the Elementary Classroom
EDEE 355	(3)	Classroom-based Evaluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDKP 241	(3)	Aboriginal Physical Activities
EDKP 292	(3)	Nutrition and Wellness
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 247	(3)	Second Language Education in Aboriginal Communities
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 447	(3)	Methods in TESL 1
RELG 207	(3)	The Study of World Religions 1

Complementary Courses (12 credits)

12 credits of courses selected as described below.

Language - Complementary Component

6 credits from the following language courses chosen according to language group and fluency:

Algonquin

EDEC 234	(3)	Algonquin Second Language 2
EDEE 293	(3)	Algonquin Second Language 1
EDEE 294	(3)	Algonquin Language 1
EDEE 295	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

EDEC 403	(3)	The Dialects of Inuktitut
EDEE 249	(3)	Inuktitut Orthography and Grammar

Mi'kmaq

EDEC 237	(3)	Mi'kmaq Second Language 1
EDEC 238	(3)	Mi'kmaq Second Language 2
EDEC 239	(3)	Mi'kmaq Language 1
EDEC 240	(3)	Mi'kmaq Language 2

Mohawk

EDEC 236	(3)	Mohawk Second Language 2
EDEE 296	(3)	Mohawk Second Language 1
EDEE 297	(3)	Mohawk Language 1
EDEE 298	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

Media, Technology, Computers and Education - Complementary Component

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Education - Complementary Component

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice
EDPC 208	(3)	Native Families' Dynamics

5.9.22 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies (120 credits)

Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

The Kindergarten and Elementary program leads to certification to teach children between the ages of 5 and 11 years (kindergarten and elementary school). The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of the program provides a school-based practicum.

The Jewish Studies option is addressed to students enrolled in the Kindergarten and Elementary program who wish to teach Jewish studies as well as general studies. Students are encouraged to acquire a strong background in Bible, Jewish prayer, Jewish holidays, and Jewish history prior to registering in the option. Students lacking the ability to teach in Hebrew should consider spending a semester at an Israeli university or seek other avenues to improve their language skills.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs," and "Quebec Teacher Certification."

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology). For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by clicking on the course CRN for registration. Check prerequisites before registering.

CEAP 250	(3)	Research Essay & Rhetoric
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
EDES 366	(3)	Literature for Young Adults
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
MATH 111	(3)	Mathematics for Education Students
RELG 207	(3)	The Study of World Religions 1

Required Courses (81 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)

EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 250	(2)	The Kindergarten Classroom
EDEE 260	(3)	Reading Methods - Early Childhood
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Teaching and Learning in the Elementary Classroom
EDEE 355	(3)	Classroom-based Evaluation
EDER 320	(3)	Visions and Realities of Jewish Education
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools
JWST 211	(3)	Jewish Studies 1: Biblical Period

Complementary Courses (36 credits)

Teaching Methods (12 credits)

3 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

9 credits from:

EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 318	(3)	Teaching the Jewish Liturgy
EDER 319	(3)	Teaching the Holocaust
EDER 401	(3)	Teaching Biblical Literature - Jewish School 1

Media, Technology, Computers and Education (3 credits)

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Kindergarten and Elementary - Subject Area: Jewish Studies (18 credits)

In consultation with the Jewish Studies option Program Adviser, students select 18 credits from the undergraduate course offerings of the Department of Jewish Studies, Faculty of Arts.

Electives (3 credits)

3 credits

5.9.22.1 Bachelor of Education Kindergarten and Elementary Program (Jewish Studies Option)

Students who wish to follow this option must contact:

Professor Eric Caplan
Department of Integrated Studies in Education
Faculty of Education
Telephone: 514-398-6544
Email: eric.caplan@mcgill.ca

5.9.23 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Pédagogie de l'Immersion Française (120 credits)

The Major Pédagogie de l'Immersion Française is designed to meet the needs of students enrolled in the B.Ed. Kindergarten and Elementary program who wish to teach in French immersion contexts. It consists of 30 credits of French and second language education courses embedded within the regular B.Ed. Kindergarten and Elementary program. In addition, certain other course sections may be offered in French.

Competency in French

Students wishing to follow the PIF major must demonstrate a sufficient level of competency in French by passing the written and oral French Language Proficiency Test (FLPT) set by the Department of Integrated Studies in Education. Students should contact advisedise.education@mcgill.ca to indicate their desire to transfer into this major and will subsequently be contacted with a testing date. The test must be passed for the transfer to be accepted/processed.

For further information about the PDF major and/or the FLPT, please contact the Department at 514-398-4527.

Required Courses (90 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230**	(3)	Elementary School Mathematics 1
EDEE 250	(2)	The Kindergarten Classroom
EDEE 260	(3)	Reading Methods - Early Childhood
EDEE 270**	(3)	Elementary School Science
EDEE 275**	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 325	(3)	Children's Literature
EDEE 332**	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Teaching and Learning in the Elementary Classroom
EDEE 355	(3)	Classroom-based Evaluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)

EDFE 306*	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406*	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 300	(3)	Foundations of L2 Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 341*	(3)	Littératie et littérature jeunesse en FLS

* Note: At least one of these Field Experiences must be completed in a French immersion setting.

** Sections may be taken in French.

Kindergarten and Elementary Teaching Methods

EDSL 345	(3)	Enseignement du FLS-immersion
EDSL 444	(3)	Laboratoire d'enseignement en français langue seconde

Complementary Courses (27 credits)

27 credits selected as described below:

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Philosophy of Education

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

Media, Technology, Computers, and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Ethics and Religious Culture

3 credits from:

EDER 309	(3)	The Religious Quest
EDER 395	(3)	Moral Values and Human Action
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
RELG 207	(3)	The Study of World Religions 1

French

15 credits selected from courses with a FREN prefix

EDSL 301*	(3)	Étude de la langue
EDSL 341*	(3)	Littérature et littérature jeunesse en FLS

* Students may select EDSL 301 OR FREN 231 but not both.

Elective Courses (3 credits)

The following courses are suggested:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDKP 332	(3)	Physical Education Curriculum and Instruction
MATH 111	(3)	Mathematics for Education Students

5.9.24 Bachelor of Education (B.Ed.) - Teaching French as a Second Language - TFSL - Joint Program with the Université de Montréal (120 credits)

(No admission for 2013-2014)

The Bachelor of Education - Teaching French as a Second Language - Joint Program with the Université de Montréal (Baccalauréat en enseignement du français langue seconde) requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

This jointly offered program prepares specialist teachers to teach French as a second language in Core French programs, immersion programs, intensive programs and classes d'accueil, at both the elementary and the secondary levels. Students will be admitted into, and registered at, either the Université de Montréal or McGill as their "home" university. Courses will be offered at the Université de Montréal during the Fall term and at McGill during the Winter term.

Additional Requirements for Students admitted to B.Ed. TFSL program:

Students admitted to the B.Ed. TFSL program are required to take a diagnostic test in French Language (written and oral). Based on test results, students may be required to successfully complete a remedial course above and beyond degree requirements. In addition, there will be a compulsory French language test for TFSL students prior to their third Field Experience. Students will be required to pass this test in order to continue in the program.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

The Freshman year is the time to take introductory-level courses in the subject field, as well as to explore areas that are not normally taken as academic subjects within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In consultation with the Program Adviser, students select 30 credits of courses for their Freshman (U0) year of studies.

To ensure that students are able to function effectively in French, students may need to take French as a Second Language (FRSL) courses (placement tests are required to determine the appropriate level) in their Freshman year.

Recommended courses include language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish; ISLA Arabic; ITAL Italian; RUSS Russian/Polish) and courses in the list below.

EDEM 220	(3)	Contemporary Issues in Education
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
RELG 207	(3)	The Study of World Religions 1

Required Courses (80 credits)

EDFE 261	(3)	Stage d'assistantat - 2e année
EDFM 260	(1)	Stage de familiarisation
EDPI 309	(3)	Exceptional Students
EDSL 260	(1)	Séminaire professionnel-2e
EDSL 301	(3)	Étude de la langue
EDSL 444	(3)	Laboratoire d'enseignement en français langue seconde
EDUM 215	(0)	Test de certification en français écrit
EDUM 245	(3)	Français écrit pour futurs enseignants
EDUM 262	(3)	Système éducatif - profession enseignante
EDUM 263	(3)	Apprentissage et développement
EDUM 264	(3)	Phonétique et phonologie
EDUM 265	(3)	Acquisition-apprentissage-langues secondes
EDUM 266	(3)	Mathématiques au primaire
EDUM 267	(3)	Didactique des arts plastiques 1
EDUM 268	(3)	Intégration des TIC
EDUM 269	(3)	École et environnement social
EDUM 270	(3)	Morphologie et syntaxe
EDUM 271	(3)	Lexique et sémantique
EDUM 341	(3)	Littératie et Littérature Jeunesse en FLS
EDUM 392	(3)	Gestion de classe en langues secondes
EDUM 393	(3)	Adolescent et expérience scolaire
EDUM 402	(3)	Évaluation en français langue seconde
EDUM 491	(3)	Didactique des mathématiques en langues secondes
EDUM 492	(3)	Didactique des sciences-technologies
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

9 credits to increase the student's proficiency level in the teaching of French, the following courses (or equivalent courses if not available):

FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire avancée
FREN 334	(3)	Méthode d'analyse des textes littéraires 1

Complementary Courses (40 credits)

40 credits selected as described below.

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

8 credits, one of two sets of courses:

Either set:

EDFE 362	(7)	Stage d'enseignement en Français langue seconde
EDSL 320	(1)	Séminaire 3 professionnel

Or set:

EDFM 361	(7)	Stage d'enseignement 1
EDUM 394	(1)	Séminaire de stage-3e

11 credits, one of two sets of courses:

Either set:

EDFE 461	(9)	Stage d'enseignement - immersion
EDSL 420	(2)	Séminaire 4 professionnel

Or set:

EDFM 460	(9)	Stage d'enseignement 2
EDUM 499	(2)	Séminaire de stage-4e

3 credits from:

EDSL 345	(3)	Enseignement du FLS-immersion
EDUM 498	(3)	Didactique du français en accueil 2

3 credits from:

EDSL 472	(3)	Enseignement du français langue seconde-secondaire
EDUM 391	(3)	Didactique du français en accueil 1

3 credits from:

EDUM 493	(3)	Sciences humaines au primaire
EDUM 494	(3)	Didactique de l'univers social et TIC
EDUM 495	(3)	Recherche-résolution de problèmes
EDUM 496	(3)	Laboratoire de formation professionnelle
EDUM 497	(3)	Problématique en éducation préscolaire

3 credits from:

EDEC 248	(3)	Multicultural Education
LING 350	(3)	Linguistic Aspects of Bilingualism

6 credits of study of a second or third language, to be chosen from University offerings, so that students experience the learning processes that take place in the learning of a language.

5.9.25 Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary (120 credits)

The Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

The program includes studies in language and language learning from linguistic, literary, social, cultural, and psychological perspectives, accompanied by field experiences. It prepares students to teach English as a Second Language (ESL) at both the elementary school level (including regular and intensive ESL) and the secondary school level (including regular ESL and ESLA - English Second Language Arts), and provides a base for adult and other ESL teaching.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Department is committed to supporting students in the development and creation of their individual professional portfolios throughout their program.

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subject field, as well as to explore areas that are not normally taken as academic subjects within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. In Quebec, ESL is taught within the French school system. Thus, proficiency in French is an asset for student teaching placements, and is a requirement for employment in Quebec.

To ensure that students are able to function effectively in French in the French school setting, EDSL 215 Effective Communication in French (placement test required) is a required course in the TESL program. This course is offered in alternate years and must be taken in students' first or second year of their program. Students may need to take prerequisite FRSL courses prior to taking EDSL 215. If so, the Freshman year is an ideal time in which to do so.

Other language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish, ISLA Arabic; ITAL Italian; RUSS Russian/Polish) are also good choices for the Freshman year.

EDEC 203	(3)	Communication in Education
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
ENGL 201	(3)	Survey of English Literature 2
FRSL 101D1	(3)	Beginners French
FRSL 101D2	(3)	Beginners French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

Required Courses (78 credits)

EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 209	(2)	First Field Experience (TESL)
EDFE 255	(3)	Second Field Experience (TESL)
EDFE 359	(8)	Third Field Experience (TESL)

EDFE 459	(7)	Fourth Field Experience (TESL)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDSL 210	(1)	First Professional Seminar
EDSL 215	(3)	Effective Communication in French
EDSL 254	(1)	Second Professional Seminar (TESL)
EDSL 300	(3)	Foundations of L2 Education
EDSL 304	(3)	Sociolinguistics and L2 Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 311	(3)	Pedagogical Grammar
EDSL 315	(2)	Third Year Professional Seminar
EDSL 330	(3)	Literacy 1: Teaching Reading in ESL
EDSL 332	(3)	Literacy 2: Teaching Writing in ESL
EDSL 334	(3)	Teaching Oral Skills in ESL
EDSL 350	(3)	Essentials of English Grammar
EDSL 412	(3)	Assessment in TESL
EDSL 415	(3)	Fourth Professional Seminar
EDSL 447	(3)	Methods in TESL 1
EDSL 458	(3)	Methods in TESL 2

Complementary Courses (36 credits)

36 credits selected as described below:

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

3 credits from:

EDEE 325	(3)	Children's Literature
EDES 366	(3)	Literature for Young Adults

3 credits from:

EDPI 341	(3)	Instruction in Inclusive Schools
EDPI 440	(3)	Managing the Inclusive Classroom

3 credits from:

LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

18 credits of English and other academic courses distributed as follows:

6-9 credits of English (ENGL.) courses

And

9-12 credits of academic courses including

Foreign language courses (0-9 credits)

Academic courses (3-12 credits)

Electives (6 credits)

6 credits

5.10 Programs for First Nations and Inuit

The following programs are offered in First Nations and Inuit communities for First Nations and Inuit teachers by the Faculty of Education.

Information may be obtained by contacting:

Faculty of Education
First Nations and Inuit Education (FNIE)
3700 McTavish Street, Room 244
Montreal, Quebec H3A 1Y2

Telephone: 514-398-4533
Fax: 514-398-2553
Website: www.mcgill.ca/dise

For details about the First Nations and Inuit Studies option within the Bachelor of Education Kindergarten and Elementary program, see [section 5.9.21: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#).

5.10.1 Certificate in Education for First Nations and Inuit (60 credits)

Program under review.

This 60-credit program provides an opportunity for Algonquin, Cree, Inuit, Mi'kmaq, and Mohawk people to become qualified as teachers. It is offered on a part-time basis in Indigenous communities throughout Quebec in collaboration with, for example, the Cree School Board, the Kativik School Board and various Mi'kmaq, Mohawk, Algonquin and education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) certification to teach at the elementary school level in First Nations and Inuit schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education for Certified Teachers program with up to 30 credits advanced standing. Certain non-credit academic upgrading courses may be required of B.Ed. applicants.

Time Limit

The time limit for completion of the 60-credit Certificate in Education for First Nations and Inuit is 12 years. The University reserves the right to request that a student retake a course or courses after a five-year period if it is felt that too long a break has occurred in the ongoing nature of the training.

The following program requirements are for all students except those specializing in teaching physical education.

Required Courses (30 credits)

EDEC 203	(3)	Communication in Education
EDEC 260	(3)	Philosophical Foundations
EDEE 325	(3)	Children's Literature
EDEM 202	(3)	Native Family Dynamics & Supporting Institutions
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

12 credits of practicum courses:

EDEC 201	(1)	First Year Professional Seminar
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 300	(5)	Aboriginal Education Field Experience

Complementary Courses

30 credits selected as described below:

6 credits from the following language courses according to language group and fluency:

Algonquin

EDEC 234	(3)	Algonquin Second Language 2
EDEE 293	(3)	Algonquin Second Language 1
EDEE 294	(3)	Algonquin Language 1
EDEE 295	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

EDEE 249	(3)	Inuktitut Orthography and Grammar
EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language

Mi'kmaq

EDEC 237	(3)	Mi'kmaq Second Language 1
EDEC 238	(3)	Mi'kmaq Second Language 2
EDEC 239	(3)	Mi'kmaq Language 1
EDEC 240	(3)	Mi'kmaq Language 2

Mohawk

EDEC 236	(3)	Mohawk Second Language 2
EDEE 296	(3)	Mohawk Second Language 1
EDEE 297	(3)	Mohawk Language 1
EDEE 298	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

Cultural Skills and Language Arts

6 credits:

EDEA 242	(3)	Cultural Skills 1
EDEE 223	(3)	Language Arts

18 credits from course List A and course List B with at least 12 credits in different subject areas. Priority should be given to selecting courses from List A.

List A

EDEC 262	(3)	Media, Technology and Education
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 241	(3)	Teaching Language Arts
EDEE 250	(2)	The Kindergarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 291	(3)	Cultural Values and Socialization
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 355	(3)	Classroom-based Evaluation

List B

EDEA 241	(3)	Basic Art Media for Classroom
EDEC 200	(3)	Introduction to Inuit Studies
EDEC 220	(3)	Curriculum Development
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 244	(3)	Issues in Aboriginal Education
EDEC 403	(3)	The Dialects of Inuktitut
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 261	(3)	Reading Clinic - Early Childhood
EDEE 292	(3)	Using Instructional Resources
EDEE 340	(3)	Special Topics: Cultural Issues

EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language
EDEE 344	(3)	Advanced Inuktitut/Amerindian Language
EDEE 345	(3)	Literature and Creative Writing 1
EDEE 346	(3)	Literature and Creative Writing 2
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 204	(3)	Health Education
EDKP 224	(3)	Foundations of Movement Education
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Development
EDPE 377	(3)	Adolescence and Education
EDSL 247	(3)	Second Language Education in Aboriginal Communities

5.10.2 Certificate in Education for First Nations and Inuit Physical Education (60 credits)

This 60-credit program provides an opportunity for Algonquin, Cree, Inuit, Mi'kmaq, and Mohawk people to become qualified as teachers. It is offered on a part-time basis in Indigenous communities throughout Quebec in collaboration with, for example, the Cree School Board, the Kativik School Board, and various Mi'kmaq, Mohawk, and Algonquin education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) certification to teach at the elementary school level in First Nations and Inuit schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education for Certified Teachers program with up to 30 credits advanced standing. Certain non-credit academic upgrading courses may be required of B.Ed. applicants.

Time Limit

The time limit for completion of the 60-credit Certificate in Education for First Nations and Inuit is 12 years. The University reserves the right to request that a student retake a course or courses after a five-year period if it is felt that too long a break has occurred in the ongoing nature of the training.

Students who specialize in teaching physical education follow the program requirements below.

Required Courses (30 credits)

EDEC 203	(3)	Communication in Education
EDEC 260	(3)	Philosophical Foundations
EDEE 325	(3)	Children's Literature
EDEM 202	(3)	Native Family Dynamics & Supporting Institutions
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

12 credits of practicum courses; students specializing in Physical Education will do a minimum of 6 credits in Physical Education settings.

EDEC 201	(1)	First Year Professional Seminar
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 300	(5)	Aboriginal Education Field Experience

Complementary Courses (30 credits)

30 credits selected as described below:

6 credits from the following language courses according to language group and fluency:

Algonquin

EDEC 234	(3)	Algonquin Second Language 2
EDEE 293	(3)	Algonquin Second Language 1
EDEE 294	(3)	Algonquin Language 1
EDEE 295	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

EDEE 249	(3)	Inuktitut Orthography and Grammar
EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language

Mi'kmaq

EDEC 237	(3)	Mi'kmaq Second Language 1
EDEC 238	(3)	Mi'kmaq Second Language 2
EDEC 239	(3)	Mi'kmaq Language 1
EDEC 240	(3)	Mi'kmaq Language 2

Mohawk

EDEC 236	(3)	Mohawk Second Language 2
EDEE 296	(3)	Mohawk Second Language 1
EDEE 297	(3)	Mohawk Language 1
EDEE 298	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

9 credits:

EDKP 241	(3)	Aboriginal Physical Activities
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Development

6 credits from the following physical education courses:

EDKP 214	(1)	Basketball 1
EDKP 217	(2)	Track & Field / Cross Country
EDKP 218	(1)	Volleyball 1
EDKP 223	(2)	Games: Principles and Practice

EDKP 229	(1)	Ice Hockey 1
EDKP 240	(1)	Winter Activities

List A

9 credits from different subject areas from course List A and course List B with priority given to courses from List A.

EDEC 262	(3)	Media, Technology and Education
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 241	(3)	Teaching Language Arts
EDEE 250	(2)	The Kindergarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	Science Teaching
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 291	(3)	Cultural Values and Socialization
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 355	(3)	Classroom-based Evaluation

List B

EDEA 241	(3)	Basic Art Media for Classroom
EDEC 200	(3)	Introduction to Inuit Studies
EDEC 220	(3)	Curriculum Development
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 244	(3)	Issues in Aboriginal Education
EDEC 403	(3)	The Dialects of Inuktitut
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 261	(3)	Reading Clinic - Early Childhood
EDEE 292	(3)	Using Instructional Resources
EDEE 340	(3)	Special Topics: Cultural Issues
EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language
EDEE 344	(3)	Advanced Inuktitut/Amerindian Language
EDEE 345	(3)	Literature and Creative Writing 1
EDEE 346	(3)	Literature and Creative Writing 2
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 204	(3)	Health Education
EDKP 224	(3)	Foundations of Movement Education
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Development
EDPE 377	(3)	Adolescence and Education
EDSL 247	(3)	Second Language Education in Aboriginal Communities

5.10.3 Admission to the Certificate in Education for First Nations and Inuit and to the Certificate in Education for First Nations and Inuit Physical Education

Those intending to complete the programs offered in cooperation with the Kativik School Board must be fluent and literate in Inuktitut/Inuinnaqtun. Fluency in Algonquin, Cree, Mi'kmaq, Mohawk, or Naskapi is not a condition for acceptance for applicants from these communities, but is considered an asset. Courses are available in all four of these languages for those teaching in immersion classes and other teaching situations where a knowledge of the first language is essential.

An applicant will normally be employed as a teacher or as a classroom assistant, have a valid teaching authorization from the appropriate teaching authority or a community education committee, be recommended by the school principal and an officer of the education authority, be recommended by a local community education committee, and be at least 21 years of age. Younger applicants will be considered for admission if they hold a Grade 12 Secondary School Diploma or a Diploma of Collegial Studies. The right of final decision for acceptance of candidates rests with McGill.

5.10.4 Certificate in Aboriginal Literacy Education (30 credits)

This 30-credit program is designed for Algonquin, Cree, Inuit, Mi'kmaq, and Kanienkehaka (Mohawk) students who wish to gain a deeper understanding of their Indigenous language, especially in its written form. It is aimed mainly at those who will be teaching their Indigenous language.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for B.Ed. are fulfilled.

Required Courses (6 credits)

EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language
EDEE 344	(3)	Advanced Inuktitut/Amerindian Language

Complementary Courses (18 credits)

18 credits selected as described below.

Language Courses

6 credits from the following language courses (or other courses as approved by the Director of Programs in First Nations and Inuit Education) including a beginning course (3 credits) in the Indigenous language as a first language (e.g., EDEC 241 Cree Language 1) and a second-level course (3 credits) in the same language (e.g., EDEC 242 Cree Language 2).

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2
EDEC 239	(3)	Mi'kmaq Language 1
EDEC 240	(3)	Mi'kmaq Language 2
EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2
EDEE 249	(3)	Inuktitut Orthography and Grammar
EDEE 294	(3)	Algonquin Language 1
EDEE 295	(3)	Algonquin Language 2
EDEE 297	(3)	Mohawk Language 1
EDEE 298	(3)	Mohawk Language 2

Education Courses

12 credits from the list below:

EDEA 242	(3)	Cultural Skills 1
EDEC 220	(3)	Curriculum Development
EDEC 403	(3)	The Dialects of Inuktitut
EDEE 223	(3)	Language Arts
EDEE 240	(3)	Use and Adaptation of Curricula

EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 345	(3)	Literature and Creative Writing 1
EDEE 346	(3)	Literature and Creative Writing 2
EDEE 348	(3)	Grammar and Composition 2
EDEE 373	(3)	Traditional Healing
EDEE 383	(3)	Oral and Family History
EDES 365	(3)	Experiences in Communications
EDPE 304	(3)	Measurement and Evaluation

Electives (6 credits)

6 credits of suitable courses approved by the Director of Programs in First Nations and Inuit Education.

5.10.4.1 Admission to the Certificate in Aboriginal Literacy Education

Students admitted to this program will be recommended by their communities. If the program is used for professional development, students will be Indigenous teachers employed in local schools. They must be mature students, or hold a Secondary V diploma or equivalent. The right of final decision for acceptance of candidates rests with McGill.

5.10.5 Certificate in Middle School Education in Aboriginal Communities (30 credits)

This 30-credit program focuses on developing the particular skills and abilities required of the Indigenous teacher in the middle school of his/her community. It does not lead to provincial certification. Rather, it prepares Indigenous teachers, who are bilingual or have some knowledge of their Indigenous language and who have already established themselves as teachers, to teach students at this level in ways that are developmentally and culturally appropriate. The program focuses on the particular psychological, emotional, and social needs of Aboriginal adolescents and the teacher's role in facilitating the transition between elementary and high school.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for the B.Ed. are fulfilled.

Required Courses (15 credits)

EDEC 245	(3)	Middle School Teaching
EDEC 246	(3)	Middle School Curriculum
EDFE 210	(3)	Middle School Practicum
EDPE 377	(3)	Adolescence and Education

3 credits from the list below:

EDEC 302	(3)	Language and Learning - Curriculum
EDSL 305	(3)	L2 Learning: Classroom Settings

Major Subject Area (6 credits)

6 credits in the major subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Minor Subject Area (6 credits)

6 credits in the minor subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Education Courses (3 credits)

3 credits from the list below or from other courses as approved by the Director of Programs in First Nations and Inuit Education.

EDEA 241	(3)	Basic Art Media for Classroom

EDEC 220	(3)	Curriculum Development
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEE 291	(3)	Cultural Values and Socialization
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 241	(3)	Aboriginal Physical Activities
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDSL 247	(3)	Second Language Education in Aboriginal Communities
EDSL 305	(3)	L2 Learning: Classroom Settings

5.10.5.1 Admission to the Certificate in Middle School Education in Aboriginal Communities

Applicants will normally have completed or be completing their B.Ed. for Certified Teachers. It is strongly recommended that they have some competence in their Indigenous language as indicated by the successful completion of at least two language courses. For those applying with degrees from other universities, additional courses may be required to match the McGill B.Ed. for Certified Teachers profile. As the program and courses will be delivered in the partnership communities, applicants must be recommended by their school boards or teaching authorities. The right of final decision for acceptance of candidates rests with McGill.

5.10.6 Certificate in First Nations and Inuit Educational Leadership (30 credits)

This 30-credit program is designed for First Nations and Inuit organizations to develop their role as leaders within the educational community. The program will focus on developing the core competencies of educational leaders, e.g., decision making and problem solving; fostering a self-reflective leader able to partner with parents to create community outreach; cultivating awareness of the holistic learning and developmental cycles of a child and the role of the educational leader in enhancing that development; maintaining the continuity of community and cultural values and aspirations within the structure of the administration of the school and other educational milieu; and understanding and supporting the pedagogical objectives and the administrative framework of the educational system.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers if the requirements for the B.Ed. are fulfilled. It may also be followed concurrently with the Certificate in Education - First Nations and Inuit.

Required Courses (15 credits)

EDEC 221	(3)	Leadership and Group Skills
EDEC 222	(3)	Personnel Management and Support
EDEC 233	(3)	First Nations and Inuit Education
EDEC 311	(3)	Resource Management
EDEC 312	(3)	Practicum in Educational Leadership

Complementary Courses (15 credits)

15 credits from the list below or any other course approved by the Director of Programs in First Nations and Inuit Education.

EDEC 220	(3)	Curriculum Development
EDEC 244	(3)	Issues in Aboriginal Education
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 245	(3)	Orientation to Education
EDEE 340	(3)	Special Topics: Cultural Issues
EDEM 202	(3)	Native Family Dynamics & Supporting Institutions
EDES 365	(3)	Experiences in Communications
EDPI 341	(3)	Instruction in Inclusive Schools

5.10.6.1 Admission to the Certificate in First Nations and Inuit Educational Leadership

Students admitted to this program will be recommended by their communities. They must be mature students (21 years of age), or hold a Secondary V diploma or equivalent. Students must speak, read, and write fluently the language of instruction as agreed upon between the unit and the client School Board

or Education Centre. For Nunavik applicants, students must have experience in a Nunavik educational or community organization. The right of final decision for acceptance of candidates rests with McGill.

5.10.7 Bachelor of Education for Certified Teachers — Elementary Education — Native and Northern (90 credits)

This 90-credit program is designed for teachers who are already certified to teach in elementary schools and who wish to earn a Bachelor of Education degree. Normally, a minimum of 60 credits must be taken in the program, and no more than 30 credits may be transferred from other institutions. Credits may be transferred from programs leading to the certificates in Educational Technology, Second Language Teaching, Inclusive Education, or Aboriginal Literacy Education taken concurrently. Credit may also be transferred from the Certificate in Education for First Nations and Inuit, which is normally completed before the B.Ed. Students completing the Bachelor of Education for Certified Teachers following the Certificate in Education for First Nations and Inuit will have accumulated a total of 120 credits, 60 for the certificate and a further 60 for the B.Ed.

The Certificate in Aboriginal Literacy Education, the Certificate in Middle School Education in Aboriginal Communities, or the Certificate in First Nations and Inuit Educational Leadership may be taken concurrently and completed within the Bachelor of Education for Certified Teachers if the required B.Ed. profile is fulfilled.

This program does not lead to further certification.

Complementary Courses

Candidates enrolled in the program complete 90 credits within the following general pattern.

Academic Concentration (30 credits)

30 credits in five (5) subject areas relevant to elementary education in a 12-9-3-3-3 pattern (i.e., 12 credits in one subject, 9 credits in a second subject, and 3 credits in each of three (3) other subject areas), or 30 academic credits in three subject areas in a 15-9-6 pattern.

Note: Subject areas relevant to elementary education, in broad terms, are the Arts (Art, Music and Drama), English, French, Science, Mathematics, Physical Education, Moral and Religious Education, Social Studies, Educational Technology, or an Aboriginal language.

Cultural Development (15 credits)

15 credits of courses that will enhance the candidate's cultural development. These are to be chosen in consultation with the Director of Programs in First Nations and Inuit Education.

Education Concentration (30 credits)

30 credits. Normally the Education concentration is completed within the Certificate in Education for First Nations and Inuit.

Electives (15 credits)

15 credits selected by the candidate after consultation with the Director of Programs in First Nations and Inuit Education.

5.10.7.1 Admission Requirements for the B.Ed. for Certified Teachers

Applicants apply on the basis of having completed the Certificate in Education for First Nations and Inuit or equivalent and must have the continued support of their education authority to attend the field-based program. The right of final decision for acceptance of candidates rests with McGill.

5.10.8 Certificate in Aboriginal Education for Certified Teachers (30 credits)

This 30-credit program provides training to assist mainstream teachers in becoming more effective teachers in First Nations and Inuit communities. It is designed to address subjects of particular interest and need in First Nations and Inuit schools, such as cultural socialization, cooperative learning, second-language teaching, and curriculum development.

Required Courses (18 credits)

EDEC 220	(3)	Curriculum Development
EDEC 233	(3)	First Nations and Inuit Education
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 291	(3)	Cultural Values and Socialization
EDEE 444	(3)	First Nations and Inuit Curriculum
EDSL 247	(3)	Second Language Education in Aboriginal Communities

Complementary Courses (12 credits)

12 credits selected as described below.

Language

3 credits of an introductory language course in the language of the community.

Education

9 credits of Education courses selected from the list below or any other suitable course approved by the Director of Programs in First Nations and Inuit Education.

EDEA 242	(3)	Cultural Skills 1
EDEC 200	(3)	Introduction to Inuit Studies
EDEE 290	(3)	Cooperative Learning
EDEM 202	(3)	Native Family Dynamics & Supporting Institutions

5.10.8.1 Admission to the Certificate in Aboriginal Education for Certified Teachers

Applicants must provide the following:

- a Diploma of Collegial Studies (DEC) or its equivalent;
- evidence of having completed teacher training at an approved institution;
- a letter of recommendation from a competent authority.

All courses are normally given off campus and are normally limited to students enrolled in off-campus programs delivered through First Nations and Inuit Education. The right of final decision for acceptance of candidates rests with McGill.

5.10.9 Certificate in First Nations and Inuit Student Personnel Services (30 credits)

This program is offered by the Department of Educational and Counselling Psychology through First Nations and Inuit Education.

This 30-credit program is designed to provide Aboriginal school personnel advisers with a training program that will enable them to learn about the principles and practice of personnel services as generally applied in educational settings, to help Aboriginal student personnel advisers develop their personal skills, and to modify or adapt their services and the content to best suit the cultural and educational needs of Aboriginal students; to encourage Aboriginal student personnel advisers to take leadership in developing educational programs that address the social needs of their communities, to upgrade their academic qualifications and professional development; and to develop and make available, in English and in the languages of instruction, collections of professional and scholarly knowledge about students' needs, and services in First Nations and Inuit communities.

Bearers of this certificate will be qualified to work as educational and school personnel advisers within the employ of an Aboriginal educational authority.

Required Courses (21 credits)

EDPC 201	(3)	Introduction to Student Advising
EDPC 202	(3)	Helping Skills Practicum 1
EDPC 203	(3)	Helping Skills Practicum 2
EDPC 205	(3)	Career/Occupational Development
EDPC 208	(3)	Native Families' Dynamics
EDPC 209	(3)	Basic Crisis Intervention Skills
EDPC 210	(3)	Field Experience

Complementary Courses (9 credits)

9 credits selected from the list below or any other suitable course approved by the Program Coordinator.

Registration in EDEM 202, EDKP 204, or any other courses offered by departments other than Educational and Counselling Psychology, or in other programs of this Department is dependent on availability (e.g., through a concurrently offered program) or through an arrangement made with that department or program. The Program Coordinator will attempt to make these contacts whenever required.

EDEM 202	(3)	Native Family Dynamics & Supporting Institutions
EDKP 204	(3)	Health Education
EDPI 211	(3)	Social and Emotional Development

5.10.9.1 Admission to Certificate in First Nations and Inuit Student Personnel Services

Admission Requirements

- Speak, read, and write fluently the language of instruction as agreed upon between First Nations and Inuit Education and the contracting school board.
- Hold a student adviser position in an Aboriginal community. This may be a new appointment concurrent with registration in the program. The position must be sufficient to meet the practicum requirements of the program.
- Be recommended by the local education authority.
- Be at least 21 years of age (except for special permission). By this means, students will qualify for admission as Mature Students under McGill regulations, and thereby not be required to have a Diploma of Collegial Studies (DEC).
- Be recommended and selected by the school administration in collaboration with McGill personnel.

The right of final decision for acceptance of candidates rests with McGill.

5.11 Department of Kinesiology and Physical Education

5.11.1 Location

Currie Gym
475 Pine Avenue West
Montreal, Quebec H2W 1S4

Telephone: 514-398-4184
Fax: 514-398-4186
Email: kin.physed@mcgill.ca
Website: www.mcgill.ca/edu-kpe

5.11.2 About the Department of Kinesiology and Physical Education

The Department of Kinesiology and Physical Education offers one program leading to a B.Ed. degree, one program leading to a B.Sc. degree, and a Minor in Kinesiology for Science students.

The Department also offers programs at the graduate level leading to an M.A. and M.Sc., and possibilities for doctoral studies. For further information, see the most current *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies found at www.mcgill.ca/study.

5.11.3 Department of Kinesiology and Physical Education Faculty

Interim Chair

René A. Turcotte

Director of Undergraduate Programs

Julie Côté

Director of Graduate Programs

David J. Pearsall

Professors

Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple) (*Canada Research Chair*)

Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)

Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

Associate Professors

Gordon Bloom; M.A.(W. Ont.), M.A.(York), Ph.D.(Ott.)

Julie Côté; B.Sc., M.Sc.(Wisc., Madison), Ph.D.(Montr.)

Enrique Garcia; B.P.E., I.N.E.F.(Madrid), M.Sc.(Laval), Ph.D.(Alta.)

Associate Professors

William Harvey; B.Ed., M.A., Ph.D.(McG.)

Russell T. Hepple; B.Sc.(Sask.), M.Sc., Ph.D.(Tor.)

David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)

Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.)

Tanja Taivassalo; B.Sc., Ph.D.(McG.)

René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.)

Assistant Professors

Dennis Jensen; B.P.E.(Brock), M.Sc., Ph.D.(Qu.)

Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Faculty Lecturer

Celena Scheede-Bergdahl; B.Sc.(C'dia), M.Sc.(Montr.), Ph.D.(Copen.)

Adjunct Professors

Robert Boushel; B.A.(P.E.)(Acad.), M.A.(S. Flor.), D.Sc.(Boston)

Christian Duval; B.Sc.(UQTR), M.Sc.(UQAM), Ph.D.(McG.)

François Peronnet; M.Sc., Ph.D.(Montr.) (*Emeritus Professor*)

Ruddy Richard; M.D.(Louis Pasteur, Strasbourg), Ph.D.(Paris Descartes)

Catherine M. Sabiston; B.Sc.K.(Dal.), M.H.K.(Windsor), Ph.D.(Br. Col.)

Associate Members

Jean Bourbeau; M.D.(Laval)

Robert Thomas Jagoe; B.A.(Camb.), M.B., B.Chir., MRCP(UK), CCST(Resp. and General (Internal) Med.), Ph.D.(Newcastle, UK), F.R.C.P.

5.11.4 Bachelor of Education (B.Ed.) - Physical and Health Education (120 credits)

The Bachelor of Education (B.Ed.) - Physical and Health Education is a 120-credit program leading to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credit program) for a total of 150 credits.

The Physical and Health Education program prepares students to teach physical and health education at the elementary and secondary levels. In a unique structure interweaving academic studies, professional course work, and teaching practices over the course of study, students are rapidly given the opportunity to assume a teaching role; the extent of teaching involvement and expectations progressively building on additional academic and professional courses.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Freshman students are required to complete 30 credits of introductory (100- or 200-level) courses. Students will not be granted permission to take first-year (U1) courses if the credits from the Freshman year have not been obtained. For students considering a second teachable subject, the following areas are recommended: history, geography, English, or mathematics.

From the "Required Courses" list, Freshman students take the 0-credit course EDEC 215 English Language Requirement. In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses.

CEAP 250	(3)	Research Essay & Rhetoric
EDEC 202	(3)	Effective Communication
EDEM 220	(3)	Contemporary Issues in Education

Required Courses (95 credits)

EDEC 215	(0)	English Language Requirement

EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 260	(3)	Philosophical Foundations
EDFE 246	(3)	First Field Experience (Physical Education)
EDFE 373	(3)	Second Field Experience (Physical Education)
EDFE 380	(7)	Third Field Experience (Physical Education)
EDFE 480	(7)	Fourth Field Experience (Physical Education)
EDKP 204	(3)	Health Education
EDKP 208	(3)	Biomechanics and Motor Learning
EDKP 213	(1)	Aquatics 1
EDKP 214	(1)	Basketball 1
EDKP 215	(0)	Standard First Aid/Cardio-Pulmonary Resuscitation Level C
EDKP 217	(2)	Track & Field / Cross Country
EDKP 218	(1)	Volleyball 1
EDKP 219	(1)	Healthy Lifestyle Activity
EDKP 223	(2)	Games: Principles and Practice
EDKP 225	(1)	Games: Principles and Practice 2
EDKP 226	(1)	Quebec Education Program Orientation
EDKP 233	(1)	Soccer
EDKP 252	(2)	Racquet Sports
EDKP 253	(1)	Educational Gymnastics
EDKP 254	(1)	Principles of Dance
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness
EDKP 293	(3)	Anatomy and Physiology
EDKP 307	(3)	Evaluation in Physical Education
EDKP 330	(3)	Physical Activity and Health
EDKP 342	(3)	Physical Education Methods
EDKP 391	(3)	Physiology in Sport and Exercise
EDKP 394	(3)	Historical Perspectives
EDKP 396	(3)	Adapted Physical Activity
EDKP 442	(3)	Physical Education Pedagogy
EDKP 443	(3)	Research Methods
EDKP 448	(3)	Exercise and Health Psychology
EDKP 494	(3)	Physical Education Curriculum Development
EDKP 498	(3)	Sport Psychology
EDPE 208	(3)	Personality and Social Development
EDPE 300	(3)	Educational Psychology

Complementary Courses (10 credits)

10 credits selected as specified below:

Physical Activity

4 credits of Physical Activity courses (EDKP) offered by the Department of Kinesiology and Physical Education.

Multicultural Education

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1

Electives (15 credits)

15 credits chosen from any of the University's course offerings to contribute to the student's academic proficiency and professional preparation.

5.11.5 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 credits)

The McGill Bachelor of Science (B.Sc.) - Kinesiology program received accreditation from the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA) in April 2007.

The B.Sc.(Kinesiology) is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The focus of the Kinesiology program is a comprehensive understanding of human movement. Kinesiology is a multidisciplinary field viewing human movement from social, historical, psychological, or biological perspectives. The program provides students with a breadth of theoretical knowledge as well as an opportunity to explore related areas in greater depth, including minor programs available elsewhere within the University.

An Honours program is available for particularly strong students. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement:

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1

In consultation with a program adviser, one of the following Fall term MATH courses:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

In consultation with a program adviser, one of the following Fall term PHYS courses:

PHYS 101	(4)	Introductory Physics - Mechanics

PHYS 131	(4)	Mechanics and Waves

Winter term BIOL and CHEM courses:

BIOL 112	(3)	Cell and Molecular Biology
CHEM 120	(4)	General Chemistry 2

One of the following Winter term MATH courses:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

One of the following Winter term PHYS courses:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Required Courses (64 credits)

ANAT 315	(3)	Anatomy/Limbs and Back
ANAT 316	(3)	Human Visceral Anatomy
CHEM 212	(4)	Introductory Organic Chemistry 1
EDKP 206	(3)	Biomechanics of Human Movement
EDKP 215	(0)	Standard First Aid/Cardio-Pulmonary Resuscitation Level C
EDKP 250	(3)	Practicum 1
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness
EDKP 330	(3)	Physical Activity and Health
EDKP 350	(3)	Physical Fitness Evaluation Methods
EDKP 395	(3)	Exercise Physiology
EDKP 396	(3)	Adapted Physical Activity
EDKP 405	(3)	Sport in Society
EDKP 443	(3)	Research Methods
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 450	(3)	Practicum 2
EDKP 485	(3)	Exercise Pathophysiology 1
EDKP 495	(3)	Scientific Principles of Training
EDKP 498	(3)	Sport Psychology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (12 credits)

12 credits selected as described below.

3 credits of Statistics from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits from:

EDKP 200	(1)	Weight Training
EDKP 201	(3)	Physical Activity Leadership
EDKP 244	(1)	Dance and Fitness
EDKP 311	(3)	Athletic Injuries
EDKP 394	(3)	Historical Perspectives
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 449	(3)	Exercise Pathophysiology 2
EDKP 451	(3)	Personal Trainer Practicum
EDKP 452	(3)	Fitness & Lifestyle Consulting
EDKP 453	(3)	Research Practicum in Kinesiology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 566	(3)	Advanced Biomechanics Theory
NUTR 503	(3)	Bioenergetics and the Lifespan

Elective Courses (14 credits)

To be chosen in consultation with the Program Director or Student Adviser.

5.11.6 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology - Honours (90 credits)

The McGill Bachelor of Science (B.Sc.) - Kinesiology program received accreditation from the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA) in April 2007.

The Honours version of the B.Sc.(Kinesiology) is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The Kinesiology - Honours program offers particularly strong students aspiring to continue their studies at the graduate level the opportunity to pursue more advanced coursework. The program requires the completion of a research project under the direction of a professor during the final year. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement:

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

BIOL 111	(3)	Principles: Organismal Biology

CHEM 110 (4) General Chemistry 1

In consultation with a program adviser, one of the following Fall term MATH courses:

MATH 139 (4) Calculus 1 with Precalculus
 MATH 140 (3) Calculus 1
 MATH 150 (4) Calculus A

In consultation with a program adviser, one of the following Fall term PHYS courses:

PHYS 101 (4) Introductory Physics - Mechanics
 PHYS 131 (4) Mechanics and Waves

Winter term BIOL and CHEM courses:

BIOL 112 (3) Cell and Molecular Biology
 CHEM 120 (4) General Chemistry 2

One of the following Winter term MATH courses:

MATH 141 (4) Calculus 2
 MATH 151 (4) Calculus B

One of the following Winter term PHYS courses:

PHYS 102 (4) Introductory Physics - Electromagnetism
 PHYS 142 (4) Electromagnetism and Optics

Required Courses (70 credits)

In addition to the 61 credits of required courses for the Major, Honours students complete EDKP 453 "Research Practicum in Kinesiology" and EDKP 499 "Undergraduate Honours Research Project."

ANAT 315 (3) Anatomy/Limbs and Back
 ANAT 316 (3) Human Visceral Anatomy
 BIOL 200 (3) Molecular Biology
 CHEM 212 (4) Introductory Organic Chemistry 1
 EDKP 206 (3) Biomechanics of Human Movement
 EDKP 215 (0) Standard First Aid/Cardio-Pulmonary Resuscitation Level C
 EDKP 261 (3) Motor Development
 EDKP 292 (3) Nutrition and Wellness
 EDKP 330 (3) Physical Activity and Health
 EDKP 394 (3) Historical Perspectives
 EDKP 395 (3) Exercise Physiology
 EDKP 396 (3) Adapted Physical Activity
 EDKP 405 (3) Sport in Society
 EDKP 443 (3) Research Methods

EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 453	(3)	Research Practicum in Kinesiology
EDKP 485	(3)	Exercise Pathophysiology 1
EDKP 495	(3)	Scientific Principles of Training
EDKP 498	(3)	Sport Psychology
EDKP 499	(6)	Undergraduate Honours Research Project
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (15 credits)

15 credits selected as described below.

3 credits of Statistics from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

12 credits from:

BIOC 311	(3)	Metabolic Biochemistry
EDKP 311	(3)	Athletic Injuries
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 449	(3)	Exercise Pathophysiology 2
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 566	(3)	Advanced Biomechanics Theory
NUTR 344	(4)	Clinical Nutrition 1
NUTR 503	(3)	Bioenergetics and the Lifespan
PHGY 314	(3)	Integrative Neuroscience
POTH 434	(3)	Musculoskeletal Biomechanics
PSYC 471	(3)	Human Motivation

Elective Courses (5 credits)

To be chosen in consultation with the Program Director or Student Adviser.

5.12 School of Information Studies

5.12.1 Location

3661 Peel Street
Montreal, Quebec H3A 1X1

Telephone: 514-398-4204
 Fax: 514-398-7193
 Email: sis@mcgill.ca
 Website: www.mcgill.ca/sis

5.12.2 About the School of Information Studies

The School of Information Studies focuses upon the knowledge and skills necessary to identify, acquire, organize, retrieve, and disseminate information so as to meet people's varied information needs.

The School of Information Studies offers four programs at the graduate level. Its 48-credit Master of Library and Information Studies (MLIS) has three areas of specialization: Archival Studies, Knowledge Management, and Librarianship. Accredited by the American Library Association, the MLIS program prepares professionals to manage information resources and services in libraries and the wider information industries. Its 30-credit Graduate Diploma in Library and Information Studies and 15-credit Graduate Certificate in Library and Information Studies are designed to provide a formal environment in which information professionals can update, specialize, and redirect their careers for advanced responsibilities. Its Ph.D. program provides an opportunity to undertake research at the doctoral level in library and information studies within an interdisciplinary context.

For further information concerning programs, requirements, and courses, consult the School of Information Studies section of the most current *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies available at www.mcgill.ca/study or the School [website](#).

5.12.3 School of Information Studies Faculty

Director

France Bouthillier

Professor

Peter F. McNally; B.A.(W. Ont.), B.L.S., M.L.S., M.A.(McG.)

Associate Professors

Joan Bartlett; B.Sc., M.L.S., Ph.D.(Tor.)

Jamshid Beheshti; B.A.(S. Fraser), M.L.S., Ph.D.(W. Ont.)

France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)

Kim Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

Catherine Guastavino; B.Sc.(McG.), M.Sc.(Aix-Marseille), Ph.D.(Paris)

Eun Park; B.A.(Pusan), M.L.I.S.(Ill.), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

Assistant Professors

Charles-Antoine Julien; B.Eng., M.Sc.(Montr.), Ph.D.(McG.)

Elaine Ménard; B.A., M.A., M.S.I., Ph.D.(Montr.)

Karyn Moffatt; B.A.Sc., M.Sc., Ph.D.(Br. Col.)

Adjunct Professor

Joy Bennett; B.A., M.A.(C'dia), M.L.I.S.(McG.), Ph.D.(C'dia)

Associate Members

Gordon Burr; B.A., M.L.I.S.(McG.)

Pierre Pluye; M.D.(Toulouse), M.Sc., Ph.D.(Montr.)

Richard Virr; B.A.(Tulane), M.A.(Qu.), Ph.D.(McG.)

Affiliate Members

Charles Cole; B.A., M.L.I.S.(McG.), Ph.D.(Sheff.)

Frances Groen; B.A., B.L.S.(Tor.), M.A.(Pitt.)

Part-time Instructors

Edward Bilodeau; B.Sc., M.L.I.S.(McG.)

Part-time Instructors

Nathalie Blanchard; B.A., B.F.A.(C'dia), M.L.I.S.(McG.)
 Heather Brydon; B.Ed.(Saint-Boniface), M.L.I.S.(McG.)
 Louise Carpentier; B.L.S.(Tor.), M.Bibl.(Montr.), M.P.P.PA.(C'dia)
 Jonathan Dorey; B.A.(Montr.), M.L.I.S.(McG.)
 Rhiannon Gainor; B.A.(Brigham Young), M.L.I.S/M.A.(Alta.)
 Aleece Germano; B.A.(N. Hamp.)
 Michele Jenkins; B.A.(Calif.-Santa Cruz), M.L.I.S.(McG.)
 Rajiv Johal; B.Com., M.L.I.S.(McG.)
 Nouf Khashman; B.A.(Al-Balqa' Univ.), M.L.I.S.(McG.)
 Trudi Wright; B.A.(Brock), M.A.(Guelph), M.L.I.S.(McG.)

6 Faculty of Engineering

6.1 About the Faculty of Engineering

The Faculty currently includes six engineering departments and two schools, and houses three institutes:

Departments

Bioengineering
 Chemical Engineering
 Civil Engineering and Applied Mechanics
 Electrical and Computer Engineering
 Mechanical Engineering
 Mining and Materials Engineering

Schools

Architecture
 Urban Planning

Institutes

Trottier Institute for Sustainability in Engineering and Design (TISED) (Website: www.mcgill.ca/isead)
 McGill Institute for Advanced Materials (MIAM) (Website: www.mcgill.ca/miam) (established by the Faculties of Engineering and Science)
 McGill Institute for Aerospace Engineering (MIAE) (Website: www.mcgill.ca/miae)

The Faculty serves approximately 3,010 undergraduate students and 1,150 graduate students in a wide variety of academic programs.

Undergraduate programs leading to professional bachelor's degrees are offered in all Engineering departments. These programs are designed to qualify graduates for immediate employment in a wide range of industries and for membership in the appropriate professional bodies. Additionally, a non-professional undergraduate degree is offered in the School of Architecture for those who plan to work in related fields not requiring professional qualification.

The curricula are structured to provide suitable preparation for those who plan to continue their education in postgraduate studies either at McGill or elsewhere. The professional degrees in Architecture and Urban Planning are offered at the master's level and are described in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Graduate* (available at www.mcgill.ca/study).

The academic programs are divided into required and complementary sections. The required courses emphasize those basic principles which permit graduates to keep abreast of progress in technology throughout their careers. Exposure to current technology is provided by the wide variety of complementary courses which allow students to pursue in depth a particular interest. For program details and requirements, refer to [section 6.12: Academic Programs](#).

The Engineering Internship Program provides engineering students with the opportunity to participate in four-, eight-, twelve-, or sixteen-month paid work experiences. Details can be found at www.mcgill.ca/careers4engineers/students/internship. In addition, co-op programs are offered in Mining Engineering and in Materials Engineering.

Postgraduate programs leading to master's and doctoral degrees are offered in all sectors of the Faculty. Numerous areas of specialization are available in each of the departments and schools. All postgraduate programs, including the professional degree programs in Architecture and in Urban Planning, are described in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Graduate* (available at www.mcgill.ca/study).

6.2 History of the Faculty

The Faculty of Engineering began in 1871 as the Department of Practical and Applied Science in the Faculty of Arts with degree programs in Civil Engineering and Surveying; Mining Engineering and Assaying; and Practical Chemistry. Diploma courses had been offered from 1859, and by 1871 the staff and enrolments had increased sufficiently to justify the creation of the Department. Continued growth led to the formation of the Faculty of Applied Science in 1878. By 1910 there were ten degree programs offered, including Architecture and Railroad Engineering. Subsequent changes in the overall pattern of the University led to the creation of the Faculty of Engineering in 1931 with a departmental structure very similar to that which exists at present.

For a detailed history of the Faculty from 1811 to 2003, see www.mcgill.ca/engineering/about-faculty/history.

6.3 Engineering Microcomputing Facility

In addition to the services provided by McGill's Information Technology Services, the Faculty, in conjunction with its departments and schools, maintains specialized computing and information resources in support of teaching and research. These vary from desktop computers distributed throughout the Engineering complex to very high-performance scientific workstations found in the research laboratories. Each unit organizes and maintains facilities that are designed around specific roles, e.g., CAD/CAM, microelectronic design, software engineering, circuit simulation, process control, polymers, structural mechanics, metal processing, etc., in addition to systems dedicated to administrative support.

The role of the Faculty is to provide access to computing resources on a 24-hour basis and to provide services that are not covered by individual units. Further information is available at www.mcgill.ca/emf.

6.4 Schulich Library of Science and Engineering

Second largest of the 13 branches of the McGill Library, the Schulich Library of Science and Engineering provides resources and services to support the research and teaching programs in engineering and in the physical sciences. The Library holds more than 260,000 books, journals, and other materials covering the spectrum of engineering and the physical sciences. There is also an extensive collection of online resources, with thousands of electronic journals, e-books, and databases. The following other branch libraries will be of interest to students in the Faculty of Engineering: Blackader-Lauterman Library of Architecture and Art, Life Sciences Library, Macdonald Campus Library, Walter Hirschfeld Geographic Information Centre, Edward Rosenthal Mathematics and Statistics Library, and the Howard Ross Library of Management.

The Schulich Library of Science and Engineering has over 100 networked computer workstations, and the entire building is a McGill wireless zone. You may choose to work in the quiet or group study areas, and there are copy and print facilities on site. The Library provides support for users with disabilities, including wheelchair access and an adaptive workstation. The Library also offers a range of tours and workshops designed to help users effectively find, assess, and use information.

Visit the website, phone or email us to learn more about the Library's services, collections and facilities. We look forward to seeing you in the Library.

Website: www.mcgill.ca/library/library-using/branches/schulich

Telephone: 514-398-4769

Email: schulich.library@mcgill.ca

6.5 About the Faculty of Engineering (Undergraduate)

Welcome to the undergraduate Faculty of Engineering section of the *Programs, Courses and University Regulations* publication.

The mission of the Faculty of Engineering is to contribute to the advancement of learning and to the socio-economic development of Quebec and Canada, through teaching and research activities at the highest international standards of quality.

Goals:

- To prepare graduates for productive professional careers through the provision of accredited bachelor's programs
- To train students through focused professional programs to attain the forefront of their fields
- To perform research and other scholarly activities which achieve international recognition
- To ensure that technological innovations developed through research are transferred to industry
- To provide a stimulating environment for teaching, learning, and research

In this section, you will find up-to-date information about the Faculty and about the undergraduate programs and courses it offers. For information about graduate studies in the Faculty of Engineering, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Graduate* (available at www.mcgill.ca/study).

You will find information on the following topics (and others):

- [section 6.1: About the Faculty of Engineering](#)
- [section 6.2: History of the Faculty](#)
- [section 6.3: Engineering Microcomputing Facility](#)
- [section 6.4: Schulich Library of Science and Engineering](#)
- [section 6.6: Degrees and Requirements for Professional Registration](#)
- [section 6.9: Student Activities](#)
- [section 6.11: Engineering Internship Program](#) (EIP)
- Undergraduate *Programs* and *Courses*
- [section 6.12.10: Minor Programs](#) for students in the Faculty of Engineering

For regulations that are specific to undergraduate studies in the Faculty of Engineering, see [University Regulations and Resources \(Undergraduate\)](#) and watch for sections and notes that are specific to the Faculty of Engineering.

6.5.1 Location

Macdonald Engineering Building
817 Sherbrooke Street West
Montreal, Quebec H3A 0C3
Canada

Telephone: 514-398-7250

Faculty website: www.mcgill.ca/engineering

The McGill Engineering Student Centre (Student Affairs Office, Career Centre, Peer Tutoring Services) and the Office of the Associate Dean (Undergraduate Education) are located at the following address:

3450 University Street
Montreal, Quebec H3A 0E8
Frank Dawson Adams Building, Suite 22

Telephone: 514-398-7257

McGill Engineering Student Centre website: www.mcgill.ca/engineering/student

6.5.2 Administrative Officers

Dean

Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.) (*James McGill Professor*) (*Interim*)

James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng. (*James McGill Professor*) (*Effective July 1, 2013*)

Associate Deans

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.), P.Eng. (*Academic Affairs*)

Mohamed A. Meguid; B.Sc.(Azhar, Cairo), M.Sc., Ph.D.(W. Ont.), P.Eng. (*Undergraduate Education*)

Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.) (*Gerald Hatch Faculty Fellow*) (*Research and Graduate Education*)

Department Chairs

Sylvain Colombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), ing. (*Chemical Engineering*)

Fabrice Labeau; B.Eng., Ph.D.(Louvain), P.Eng. (*Electrical and Computer Engineering*) (*Interim*)

Arun Misra; B.Tech.(Indian IT, Kharagpur), Ph.D.(Br. Col.), P.Eng., F.A.A.S., A.F.A.I.A.A. (*Mechanical Engineering*)

Van Thanh Van Nguyen; B.M.E.(Vietnam), M.C. Eng.(A.I.T.), D.A.Sc.(Montr.), Eng. (*Civil Engineering and Applied Mechanics*)

Steve Yue; B.Sc., Ph.D.(Leeds) (*James McGill Professor*) (*Lorne Trotter Chair in Aerospace Engineering*) (*Mining and Materials Engineering*)

Director, School of Architecture

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.)

Director, School of Urban Planning

Raphaël Fischler; B.Eng.(U. Tech. Eindhoven), M.Sc., M.C.P.(MIT), Ph.D.(Calif., Berk.)

Secretary of Faculty

Colin Rogers; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Syd.), P.Eng.

Director of Administration

Sonia Nardini (*Interim*)

Operations Manager

Debbie Morzajew

Human Resources Adviser

Susanne Baumann-Moroy

Financial Officer

Sinikhiwe Maphosa (*Interim*)

Director, Engineering Student Centre

Judy Pharo

6.6 Degrees and Requirements for Professional Registration

Non-Professional

Bachelor of Science (Architecture)

The first professional degree in architecture is the Master of Architecture (Professional). Further information can be found in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Graduate* (available at www.mcgill.ca/study).

Professional

Bachelor of Engineering

Bachelor of Software Engineering

The B.Eng. and B.S.E. programs are accredited by the Canadian Engineering Accreditation Board (CEAB) of Engineers Canada and fulfil the academic requirements for admission to the provincial engineering professional organizations. Engineers Canada has also negotiated agreements with engineering organizations in other countries to grant Canadian licensed engineers the same privileges accorded to professional engineers in those countries. For more information, visit the Engineers Canada website at www.engineerscanada.ca. All students are expected to seek professional registration after graduation.

To become a professional engineer in Canada, a graduate must pass an examination on legal aspects and on the principles of professional practice, and acquire two to four years of engineering experience, depending on the province. Only persons duly registered may use the title “engineer” and perform the professional activities reserved for engineers by provincial laws and regulations.

In Quebec, the professional engineering body is the *Ordre des ingénieurs du Québec* (OIQ). In order to better prepare new graduates for the practice of their profession, McGill organizes seminars in cooperation with the OIQ on various aspects of the profession. The OIQ also has a student section. As soon as you have accumulated 60 credits in a B.Eng. or B.S.E. program, you can join the student section of the OIQ. Registration is free. For more information, visit the OIQ website at www.oiq.qc.ca.

6.7 Admission Requirements

The Faculty of Engineering offers programs leading to the degrees of B.Eng., B.S.E., and B.Sc.(Arch.). Enrolment in Engineering programs is limited. For detailed information on admissions requirements, see the *Undergraduate Admissions Guide* at www.mcgill.ca/applying.

6.8 Student Progress

The length of the B.Eng., B.S.E., and B.Sc.(Arch.) programs varies depending on the program and basis of admission. You can find the curriculum for your program on the website of your department/school. See www.mcgill.ca/engineering/departments for links to department/school websites.

You must successfully complete the B.Eng., B.S.E., or B.Sc.(Arch.) program within six years of entry. Candidates admitted to a lengthened program, or to a shortened program because of advanced standing, or who are participating in a work term or in the Engineering Internship Program (EIP), will have a correspondingly greater or lesser period in which to complete their program.

Extensions may be granted by the Committee on Standing in cases of serious medical problems or where other similarly uncontrollable factors have affected your progress.

6.9 Student Activities

The campus offers a wide variety of extracurricular activities for students. All are encouraged to participate. Many of these are organized within the Faculty under the auspices of the Engineering Undergraduate Society (EUS). EUS publishes a handbook describing their operations and the activities of various Faculty clubs and societies; you can also find these on their website (see below). All undergraduate students automatically become members of the EUS. Each department and school also has a student association.

For more information about EUS and links to department/school student association websites, visit the EUS website at www.mcgilleus.ca.

For more information on extra-curricular activities and organizations, see www.mcgill.ca/engineering/student/sao/life.

For more information on student design teams and projects, see www.mcgill.ca/engineering/student/sao/studentdesign.

6.10 Degrees and Programs Offered

Internship Programs

Engineering Internship Program

Co-op Programs

Materials Engineering (B.Eng.)

Mining Engineering (B.Eng.)

General Engineering Program

General Engineering – Undeclared major (Freshman year)

Major Programs

Architecture (B.Sc.(Arch.))

Chemical Engineering (B.Eng.)

Civil Engineering (B.Eng.)

Computer Engineering (B.Eng.)

Electrical Engineering (B.Eng.)

Mechanical Engineering (B.Eng.)

Software Engineering (B.S.E.)

Honours Programs

Electrical Engineering (B.Eng.)

Mechanical Engineering (B.Eng.)

Minors

Arts

Biomedical Engineering

Biotechnology

Minors

Chemistry
 Computer Science
 Construction Engineering and Management
 Economics
 Environment
 Environmental Engineering
 Management Minors: Minor in Finance, Minor in Management, Minor in Marketing, Minor in Operations Management
 Materials Engineering
 Mathematics
 Mining Engineering
 Musical Science and Technology
 Physics
 Software Engineering
 Technological Entrepreneurship

6.11 Engineering Internship Program

Employers value experience. Internships (four, eight, twelve, or sixteen months) allow you to gain professional work experience during the course of your undergraduate studies while earning a salary within the average range for entry-level professional positions. Other benefits include the following:

- Improved employment prospects upon graduation, often at a higher starting salary
- The opportunity to explore career options prior to graduation
- The opportunity to develop communication skills and to acquire a business perspective that cannot be learned in school

An internship may begin in January, May, or September. Employers choose the most suitable students for their organization through an application and interview process. While employed by the participating companies, you work on assignments related to your field of study. Internships will be recognized on your transcript as one or more non-credit courses entitled “Industrial Practicum.” Successful completion of an internship of eight months or more qualifies you to graduate with the Internship Program designation on your transcript.

6.11.1 Student Eligibility

To participate in the Engineering Internship Program, you must:

- have a CGPA of 2.00 or higher;
- be in good financial standing with the University;
- obtain approval from the Engineering Career Centre before registering for or starting your internship;
- be registered full-time in your program before and after your internship;
- remain a degree candidate while on internship;
- return to complete your undergraduate degree at McGill, with a minimum of 15 credits remaining in your program after your internship (i.e., you are not allowed to complete your degree during your internship).

Internship students will receive an automatic extension for the completion of their studies.

International students are eligible (a few restrictions may apply).

For more information, see www.mcgill.ca/careers4engineers or send an email to careers4engineers@mcgill.ca.



Important Information:

- While on internship, you are expected to complete any deferrals you may have been granted, regardless of the location of the internship. If you do not write a deferred exam as scheduled, you will receive a final grade of J. The J grade will calculate as a failure in both the TGPA and CGPA.
- International students must ensure that their health coverage remains in force during their internship.
- During your time as an intern, you are not considered to be in full-time status. Your government loans will become due and payable within the prescribed grace period (usually six months).

- If you officially accept an internship position but subsequently decline the position, you will no longer be eligible for the Engineering Internship Program.

6.12 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty reserves the right to introduce changes as may be deemed necessary or desirable.

6.12.1 General Engineering Program

The General Engineering Program (GEP) is offered in addition to the Faculty of Engineering's majors (Chemical, Civil, Computer, Electrical, Materials, Mechanical, Mining, and Software Engineering). The GEP permits students with strong mathematics, physics, and chemistry results in high school to pursue a common first-year curriculum without declaring a particular major program at the time of application. The GEP spans one academic year only (Year 0). Students then apply for placement and continue in an Engineering major program.

The GEP is not open to students with more than 6 transfer credits toward their engineering major (e.g., transfer credits from Advanced Placement (AP) exams or from courses taken at other universities).

Applicants who already know which major(s) they wish to study should apply directly for the major(s) rather than select the General Engineering Program option.

For more information about the General Engineering Program, see www.mcgill.ca/engineering/degrees/general.

6.12.1.1 Bachelor of Engineering (B.Eng.) - General Engineering - Undeclared (30 credits)

This is a 30-credit course of study for the first year of a Bachelor of Engineering degree for students who have not completed a Quebec CEGEP diploma. Upon successful completion of these requirements, students must apply for placement and continue in a B.Eng. or B.S.E. program.

Year 0 (Freshman) Courses

(30 credits)

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
FACC 100	(1)	Introduction to the Engineering Profession
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at: <http://www.mcgill.ca/importantdates/>.

Students who successfully complete one or more Science Placement Exams will obtain credit(s) for the equivalent(s), i.e., CHEM 110, CHEM 120, MATH 140, MATH 141, MATH 133, PHYS 131, PHYS 142. Please see <http://www.mcgill.ca/students/exams/science> for information on Science Placement Exams.

Language Courses

If you are not proficient in a certain language, 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the B.Eng./B.S.E. Complementary Studies requirement.

However, 3 credits may be given for any language course at the 200 level or higher that has a sufficient cultural component. This course must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.2 School of Architecture

6.12.2.1 Location

Macdonald-Harrington Building, Room 201
815 Sherbrooke Street West
Montreal, Quebec H3A 0C2

Telephone: 514-398-6700

Fax: 514-398-7372

Website: www.mcgill.ca/architecture

6.12.2.2 About the School of Architecture

The School of Architecture at McGill University was founded in 1896. Our mission is to educate professionals who will contribute to the socio-economic and cultural development of Quebec, Canada and the broader global community through responsible participation in the process of the design, construction, and interpretation of the built environment.

The School offers the non-professional B.Sc.(Arch.) program, the M.Arch. (Professional) program, and post-professional research programs, including the M.Arch. (Post-professional) and Ph.D.

6.12.2.3 Architectural Certification in Canada

In Canada, all provincial/territorial associations/institutes/orders recommend a degree from an accredited professional degree program as a prerequisite for licensure. The Canadian Architectural Certification Board (CACB), which is the sole agency authorized to accredit Canadian professional degree programs in architecture, recognizes two types of accredited degrees: the Master of Architecture and the Bachelor of Architecture (B.Arch.). A program may be granted a two-year, three-year, or six-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The M.Arch. (Professional) degree is accredited by the Canadian Architectural Certification Board (CACB), and is recognized as accredited by the National Council of Architectural Registration Boards (NCARB) in the United States.

6.12.2.4 Programs of Study

Students in the B.Sc.(Arch.) program who intend to proceed to the professional degree must satisfy certain minimum requirements. Students must:

- complete the B.Sc.(Arch.) degree, including the series of required and complementary courses stipulated for professional studies, with a minimum CGPA of 3.00;
- submit a portfolio of work executed in the sequence of six design studios, as well as samples of professional and personal work;
- complete the minimum period of relevant work experience according to the current Work Experience Guidelines (see www.mcgill.ca/architecture/bboard/bscmai/workexperience).

Further information on the M.Arch. (Professional) program and application procedures is available at www.mcgill.ca/architecture.

6.12.2.4.1 Student Exchanges

A limited number of qualified students may participate in an exchange with schools of architecture at other universities that have agreements with the McGill School of Architecture, for a maximum of one term in the second year of the B.Sc.(Arch.) program. These include the following: Università Iuav di Venezia (Venice, Italy); Fakultät für Raumplanung und Architektur, Technische Universität Wien (Vienna, Austria); Université Catholique de Louvain (Brussels, Belgium); École Nationale Supérieure d'architecture de Grenoble (Grenoble, France); École Nationale Supérieure d'architecture de Clermont-Ferrand (Clermont-Ferrand, France); Scuola di Architettura Civile Politecnico di Milano (Boviso) (Milan, Italy); The Royal Danish Academy of Fine Arts, School of Architecture (Copenhagen, Denmark) (graduate level only).

6.12.2.5 Ancillary Academic Facilities

Laboratories and Workshops

Facility for Architectural Research in Media Mediation (FARMM) – Professor Michael Jemtrud

Laboratory for Integrated Prototyping and Hybrid Environments (LIPHE) – Professor Aaron Sprecher

Media Centre – Juan Osorio, Media Technician

Workshop Facilities – David Speller, Technician

Library

Blackader-Lauterman Library of Architecture and Art, located in the Redpath Library – Jennifer Garland, Liaison Librarian

Collections

Architecture Slide Library – Professor Annmarie Adams

The John Bland Canadian Architecture Collection, housed in the Blackader-Lauterman Library – Ann Marie Holland, Liaison Librarian

Orson Wheeler Architectural Model Collection – Professor Pieter Sijpkens

6.12.2.6 School of Architecture Faculty

Director

Annmarie Adams

Emeritus Professors

Bruce Anderson; B.Arch.(McG.), M.Arch.(Harv.), F.R.A.I.C., O.A.Q.

Derek Drummond; B.Arch.(McG.), F.R.A.I.C., O.A.A. (*William C. Macdonald Emeritus Professor of Architecture*)

Adrian Sheppard; B.Arch.(McG.), M.Arch.(Yale), F.R.A.I.C., O.A.Q., A.A.P.P.Q.

Radoslav Zuk; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(Ukr. Acad. Art), F.R.A.I.C., F.R.S.A., F.A.R.C., O.A.Q., O.A.A.

Professors

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*William C. Macdonald Professor of Architecture*)

Vikram Bhatt; N.Dip.Arch.(Ahmedabad), M.Arch.(McG.), M.R.A.I.C.

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.

Alberto Pérez-Gómez; Dipl.Eng.Arch.(Nat. Pol. Inst., Mexico), M.A., Ph.D.(Essex), M.R.A.I.C. (*Saidye Rosner Bronfman Professor of Architectural History*)

Associate Professors

Martin Bressani; B.Sc.(Arch.), B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur (Paris-Sorbonne – Paris IV), O.A.Q.

Ricardo L. Castro; B.Arch.(Los Andes, Col.), M.Arch., M.A.(Ore.), F.R.A.I.C.

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.

Michael Jemtrud; B.Sc., B.A., B.Arch.(Penn. St.), M.Arch.(McG.), M.R.A.I.C.

Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.), M.C.I.P.

Robert Mellin; B.Arch., M.Sc.(Arch.)(Penn. St.), M.Arch.(McG.), M.Sc., Ph.D.(Penn.), M.R.A.I.C., N.A.A.

Assistant Professors

Aaron Sprecher; B.Arch.(Bezalel), M.Arch.(Calif.-LA)

Ipek Tureli; B.Arch.(Istanbul), Diploma (A.A.), Ph.D. (Calif., Berk.)

Adjunct Professors

Sinisha Brdar

Robert L. Claiborne

Howard Davies

Talia Dorsey

Julia Gersovitz

Phyllis Lambert

Maria Mingallon

Mark Poddubiuk

Pierina Saia

Conor Sampson

Course Lecturers

Manon Asselin

Morgan M. Carter

Jaime Coll

Nancy Dunton

Marc Hallé

Francisca Insulza

Andrew King

Judith Leclerc

Sevag Pogharian

Pieter Sijpkens

Katsuhiko Yamazaki

Visiting Critics and Guest Lecturers

Each year, visitors are involved in the teaching of certain courses as critics and lecturers. These visitors change from year to year. The following were visitors for 2012:

Rami Abou-Khalil, Tanya Abramovitch, Gavin Affleck, Lionel Alcoloumbre, Thierry Beaudoin, Cédric Boulet, Louis Brillant, Michel Broz, Valérie Chartrand, Domenico Ciraci, Sergio Clavijo, Jerome Conraud, Anne Cormier, Dana Cupkova-Meyers, Claudine Deom, Paul Emmons, Miguel Escobar, Patrick Evans, Martin Frappier, Fabrizio Galanti, Fanis Gramenos, Hal Greenberg, André Habib, Bechara Helal, Jason Hughes, Hans Ibelings, Hal Ingberg, Marta Masferrer Juliol, Jan Kubanek, Daniel Lafond, Benoit-Simon Lagacé, Elsa Lam, Michel Langevin, David Leatherbarrow, Karl Lemieux, Mathieu Lemieux-Blanchard, Kevin Manaugh, Paula Meijerink, Patrick Morand, Franco Panzini, Louise Pelletier, Louis Pretty, Kevin Pratt, Michele Regina, Gilles Saucier, Paul Scriver, Malena Szlam, Inderbir Singh Riar, Chris Siefert, Robert Stanley, Bruno St-Jean, Tom Switzer, Georges Teyssot, David Theodore, Vladimir Topouzanov, Guy Villemure, Lilith Wyatt

6.12.2.7 Bachelor of Science (B.Sc.) (Architecture) - Architecture (126 credits)

Program credit weight: 126 credit

Program credit weight for CEGEP students: 100 credits

McGill's professional program in Architecture is divided into two parts. The first part is an eight-term design-based program (six-term program for students entering with the Quebec Diploma of Collegial Studies in Pure and Applied Science or the equivalent) leading to a non-professional degree, Bachelor of Science (Architecture). Applicants whose background includes a university degree in an area not related to architecture should apply to the B.Sc.(Arch.) program. For detailed information about admission procedures and requirements, please see the Undergraduate Admissions Guide at <http://www.mcgill.ca/applying>.

The second part, for students with the McGill B.Sc.(Arch.) degree or equivalent non-professional undergraduate architecture degree, is either a three-term or a two-year program leading to the Master of Architecture (Professional) degree. There are two options for the completion of the M.Arch. (Professional) program: Design Studio (45 credits) and Design Studio-Directed Research (60 credits). The M.Arch. (Professional) degree is accredited by the Canadian Architectural Certification Board (CACB), and is recognized as accredited by the National Council of Architectural Registration Boards (NCARB) in the U.S.

For more information on program structure and courses, visit the School of Architecture website at <http://www.mcgill.ca/architecture>.

Required Year 0 (Freshman) Courses

26 credits

Generally, students admitted to the Architecture program from Quebec CEGEPs are granted transfer credit for the Year 0 (Freshman) courses and enter a 100-credit (six-term) program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Required Non-Departmental Courses

15 credits

Note: Candidates intending not to proceed to the M.Arch. (Professional) degree may substitute other courses of equal total credit weight for any course with an asterisk (*) in the list below.

CIVE 284	(4)	Structural Engineering Basics
CIVE 385*	(3)	Structural Steel and Timber Design
CIVE 388*	(3)	Foundation and Concrete Design
CIVE 492*	(2)	Structures
FACC 220	(3)	Law for Architects and Engineers

Required Architectural Courses

73 credits

ARCH 201	(6)	Communication, Behaviour and Architecture
ARCH 202	(6)	Architectural Graphics and Elements of Design
ARCH 221	(2)	Architectural Drawing
ARCH 240	(3)	Organization of Materials in Buildings
ARCH 241	(3)	Architectural Structures
ARCH 250	(3)	Architectural History 1

ARCH 251	(3)	Architectural History 2
ARCH 303	(6)	Design and Construction 1
ARCH 304	(6)	Design and Construction 2
ARCH 325	(2)	Architectural Sketching
ARCH 342	(3)	Digital Representation
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 405	(6)	Design and Construction 3
ARCH 406	(6)	Design and Construction 4
ARCH 447	(2)	Lighting
ARCH 451	(2)	Building Regulations and Safety
ARCH 512	(3)	Architectural Modelling

Complementary Courses

6 credits from the following:

ARCH 378	(3)	Site Usage
ARCH 379	(3)	Summer Course Abroad
ARCH 383	(3)	Geometry and Architecture
ARCH 461	(1)	Freehand Drawing and Sketching
ARCH 490	(2)	Selected Topics in Design
ARCH 514	(4)	Community Design Workshop
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 523	(3)	Significant Texts and Buildings
ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 526	(3)	Philosophy of Structure
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 533	(3)	New Approaches to Architectural History
ARCH 534	(3)	Architectural Archives
ARCH 535	(3)	History of Architecture in Canada
ARCH 536	(3)	Heritage Conservation
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
ARCH 554	(2)	Mechanical Services
ARCH 564	(3)	Design for Development

ARCH 566	(3)	Cultural Landscapes Seminar
OCC1 442	(2)	Environments for the Disabled

Electives

6 credits of elective courses outside the School of Architecture must be completed, subject to approval by the Student Adviser.

6.12.3 Department of Chemical Engineering

6.12.3.1 Location

M.H. Wong Building, Room 3060
3610 University Street
Montreal, Quebec H3A 0C5

Telephone: 514-398-4494

Fax: 514-398-6678

Website: www.mcgill.ca/chemeng

6.12.3.2 About the Department of Chemical Engineering

The central purpose of engineering is to pursue solutions to technological problems in order to satisfy the needs and desires of society. Chemical engineers are trained to solve the kinds of problems that are typically found in the “chemical process industries,” which include the chemical manufacturing, plastics, water treatment, pulp and paper, petroleum refining, ceramics, and paint industries, as well as substantial portions of the food processing, textile, nuclear energy, biochemical, biomedical, and pharmaceutical industries. The technological problems and opportunities in these industries are often closely linked to social, economic, and environmental concerns. For this reason, practitioners of chemical engineering often deal with these questions when they are working in management, pollution abatement, product development, marketing, and equipment design.

By means of complementary courses, students can also obtain further depth in technical areas and breadth in non-technical subjects. Some students elect to complete a minor in biotechnology, management, materials engineering, computer science, environmental engineering, chemistry, or another minor (see [section 6.12.10: Minor Programs](#) for minors available to engineering students).

The solution to many environmental problems requires an understanding of technological principles. A Chemical Engineering degree provides an ideal background. In addition to relevant material learned in the core program, a selection of environmental complementary courses and minor programs is available. The involvement of many Chemical Engineering staff members in environmental research provides the opportunity for undergraduate students to carry out research projects in this area.

The curriculum also provides the preparation necessary to undertake postgraduate studies leading to the M.Eng. or Ph.D. degrees in Chemical Engineering. Students completing this curriculum acquire a broad, balanced education in the natural sciences with the accent on application. Thus, for those who do not continue in Chemical Engineering, it provides an exceptionally balanced education in applied science. For others, it will form the basis of an educational program that may continue with a variety of studies such as business administration, medicine, or law. Versatility is, then, one of the most valuable characteristics of the graduate of the Chemical Engineering program.

6.12.3.3 Academic Program

The Chemical Engineering program comprises 142 credits (116 credits for those who completed the Quebec CEGEP program in Pure and Applied Sciences). Certain students who take advantage of Summer session courses can complete the program in three calendar years.

In some cases, students from university science disciplines have sufficient credits to complete the requirements for the B.Eng. (Chemical) program in two years. Those concerned should discuss this with their adviser.

Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

6.12.3.4 Canadian Society for Chemical Engineering

The Chemical Engineering Student Society has for many years been affiliated both with the CSChE (Canadian Society for Chemical Engineering) and with the AIChE (American Institute of Chemical Engineers). For a nominal fee, students receive *Canadian Chemical News*, a monthly publication, and the *AIChE Student Members Bulletin* as well as other privileges of student membership in the two societies. The student chapter also organizes a series of local social, educational, and sporting events. For example, recent events have included student-professor banquets and Christmas parties, dances, speakers, broomball games, and joint meetings with the Montreal Section of the CSChE. The latter gives students a chance to mix with practising chemical engineers.

6.12.3.5 Department of Chemical Engineering Faculty

Chair

Sylvain Coulombe

Emeritus Professors

David G. Cooper; B.Sc., Ph.D.(Tor.)

John M. Dealy; B.S.(Kansas), M.S.E., Ph.D.(Mich.), Eng.

Musa R. Kamal; B.S.(Ill.), M.S., Ph.D.(Carn. Mell), Eng.

Richard J. Munz; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(McG.), Eng.

Juan H. Vera; B.Mat.(Chile), Ing.Quim.(U.T.E.), M.S.(Calif., Berk.), Dr.Ing.(Santa Maria), Eng.

Professor

Alejandro D. Rey; B.Ch.Eng.(CCNY), Ph.D.(Calif., Berk.) (*James McGill Professor*)

Associate Professors

Dimitrios Berk; B.Sc.(Bosphorus), M.E.Sc.(W. Ont.), Ph.D.(Calg.), P.Eng.

Sylvain Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), ing.

Reghan James Hill; B.Eng.(Auck.), Ph.D.(C'nell)

Richard L. Leask; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Tor.), P.Eng.

Milan Maric; B.Sc., B.Eng. & Mgmt(McM.), Ph.D.(Minn.), P.Eng.

Jean-Luc Meunier; Dipl.Ing., EPFL(Lausanne), M.Sc., Ph.D., INRS(Varenes), ing.

Sasha Omanovic; Dipl.Ing., Ph.D.(Zagreb), P.Eng.

Thomas Quinn; B.Sc.(Qu.), S.M., Ph.D.(MIT), ing.

Phillip Servio; B.Sc., Ph.D.(Br. Col.)

Nathalie Tufenkji; B.Eng.(McG.), M.Sc., Ph.D.(Yale)

Viviane Yargeau; B.Eng., M.Sc.A., Ph.D.(Sher.), ing.

Assistant Professors

P.-Luc Girard-Lauriault; B.Sc.(Montr.), Ph.D.(École Poly., Montr.)

Jeff Gostick; B.Eng.(Ryerson), M.A.Sc., Ph.D.(Wat.), P.Eng.

Elizabeth Jones; B.A.Sc.(Wat.), M.S., Ph.D.(Calif. Tech.)

Anne-Marie Kietzig; B.Eng.(T.U. Berlin), Ph.D.(Br. Col.)

Post-Retirement

W.J. Murray Douglas; B.Sc.(Qu.), M.S.E., Ph.D.(Mich.)

6.12.3.6 Bachelor of Engineering (B.Eng.) – Chemical Engineering (142 credits)

Program credit weight: 142-145 credits

Program credit weight for CEGEP students: 116 credits

Program credit weight for out-of-province students: 142 credits

The discipline of chemical engineering is distinctive in being based equally on physics, mathematics, and chemistry. Application of these three fundamental sciences is basic to a quantitative understanding of the process industries. Those with an interest in the fourth fundamental science, biology, will find several courses in the chemical engineering curriculum that integrate aspects of the biological sciences relevant to process industries such as food processing, fermentation, biomedical, and water pollution control. Courses on the technical operations and economics of the process industries are added to this foundation. The core curriculum concludes with process design courses taught by practising design engineers. Problem-solving, experimenting, planning, and communication skills are emphasized in courses throughout the core curriculum.

Certain students who take advantage of Summer session courses can complete the departmental program in three calendar years.

In some cases, students from university science disciplines have sufficient credits to complete the requirements for the B.Eng. (Chemical) program in two years. Those concerned should discuss this with their adviser.

Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

Note to CEGEP students

If you have successfully completed a course at CEGEP that is equivalent to CHEM 212 or CHEM 234, you may request exemption for either or both courses. However, you must replace each course with another university-level course of an equal number of credits or more — McGill courses beginning with subject codes ATOC, BIOL, CHEM, EPSC, ESYS, PHYS are acceptable substitutes.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 116-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

24 credits

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 234	(3)	Topics in Organic Chemistry
COMP 208	(3)	Computers in Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Chemical Engineering Courses

74 credits

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 231	(3)	Data Analysis and Design of Experiments
CHEE 291	(4)	Instrumentation and Measurement 1
CHEE 310	(3)	Physical Chemistry for Engineers
CHEE 314	(3)	Fluid Mechanics
CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes
CHEE 360	(1)	Technical Paper

CHEE 370	(3)	Elements of Biotechnology
CHEE 380	(3)	Materials Science
CHEE 390	(3)	Computational Methods in Chemical Engineering
CHEE 400	(3)	Principles of Energy Conversion
CHEE 401	(3)	Energy Systems Engineering
CHEE 423	(3)	Chemical Reaction Engineering
CHEE 440	(3)	Process Modelling
CHEE 453	(4)	Process Design
CHEE 455	(3)	Process Control
CHEE 456	(2)	Design Project 1
CHEE 457	(5)	Design Project 2
CHEE 474	(3)	Biochemical Engineering
CHEE 484	(3)	Materials Engineering
CHEE 491	(4)	Instrumentation and Measurement 2

Technical Complementaries

9 credits

The purpose of this requirement is to provide students with an area of specialization within the broad field of chemical engineering. Alternatively, some students use the technical complementaries to increase the breadth of their chemical engineering training.

At least two courses (5-7 credits) must be chosen from the list below. The remaining course(s) (2-4 credits) may be taken from other suitable undergraduate courses in the Faculty of Engineering, with departmental permission.

BIOT 505*	(3)	Selected Topics in Biotechnology
CHEE 363**	(2)	Projects Chemical Engineering 1
CHEE 438	(3)	Engineering Principles in Pulp and Paper Processes
CHEE 494**	(3)	Research Project and Seminar 1
CHEE 495**	(4)	Research Project and Seminar 2
CHEE 496**	(3)	Environmental Research Project
CHEE 510	(3)	Advanced Separation Processes
CHEE 515+	(3)	Material Surfaces: A Biomimetic Approach
CHEE 521+	(3)	Nanomaterials and the Aquatic Environment
CHEE 541	(3)	Electrochemical Engineering
CHEE 543	(3)	Plasma Engineering
CHEE 561	(3)	Introduction to Soft Tissue Biophysics
CHEE 562	(3)	Engineering Principles in Physiological Systems
CHEE 563+	(3)	Biofluids and Cardiovascular Mechanics
CHEE 571	(3)	Small Computer Applications: Chemical Engineering
CHEE 582	(3)	Polymer Science & Engineering
CHEE 584	(3)	Polymer Processing
CHEE 585	(3)	Foundations of Soft Matter
CHEE 591	(3)	Environmental Bioremediation
CHEE 592+	(3)	Industrial Air Pollution Control
CHEE 593+	(3)	Industrial Water Pollution Control
CHEE 594	(3)	Biocolloids in Environmental Systems

CHEE 595	(3)	Energy Recovery, Use, & Impact
CIVE 430+	(3)	Water Treatment and Pollution Control
CIVE 521+	(3)	Nanomaterials and the Aquatic Environment
MECH 534+	(3)	Air Pollution Engineering
MECH 563+	(3)	Biofluids and Cardiovascular Mechanics
MIME 515+	(3)	Material Surfaces: A Biomimetic Approach

* BIOT 505 can only be chosen by students taking the Minor in Biotechnology.

** Students may choose only one project course: CHEE 363, CHEE 495, or CHEE 496.

+ Students may choose only one course in each of the following sets:

- CHEE 515 or MIME 515

- CHEE 521 or CIVE 521

- CHEE 563 or MECH 563

- CHEE 592 or MECH 534

- CHEE 593 or CIVE 430

Complementary Studies

6 credits (9 credits for students from Quebec CEGEPs)

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies and Law

3 credits (6 credits for students from Quebec CEGEPs) at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.3.6.1 More about the B.Eng. Degree in Chemical Engineering

Courses CHEE 582 and CHEE 584 comprise a Polymeric Materials sequence. Additional courses in this area are available in the Chemistry Department (e.g., CHEM 574) or at the graduate level (CHEE 681). The Department has considerable expertise in the polymer area.

Courses CHEE 370 and CHEE 474 make up a sequence in Biochemical Engineering-Biotechnology. Students interested in this area may take additional courses, particularly those offered by the Department of Food Science and Agricultural Chemistry, Faculty of Agricultural and Environmental Sciences, and courses in biochemistry and microbiology. The food, beverage, and pharmaceutical industries are large industries in the Montreal area and these courses are relevant to these industries and to the new high-technology applications of biotechnology.

The third area in which there is a sequence of courses is Pollution Control. The Department offers three courses in this area: CHEE 591, CHEE 592, and CHEE 593. As some water pollution control problems are solved by microbial processes, course CHEE 474 is also relevant to the pollution control area. Additional courses in this area are listed in the [section 6.12.10.9: Environmental Engineering Minor](#).

A Minor in Biotechnology is also offered by the Faculties of Engineering and Science with emphasis on molecular biology and chemical engineering processes. A full description of the program appears in the [section 6.12.10.3: Biotechnology Minor](#).

Note that many of the technical complementaries are offered only in alternate years. Students should, therefore, plan their complementaries as far ahead as possible. With the approval of the instructor and Academic Adviser, students may take graduate (500-level) CHEE courses as technical complementaries.

6.12.4 Department of Civil Engineering and Applied Mechanics

6.12.4.1 Location

Macdonald Engineering Building, Room 492
817 Sherbrooke Street West
Montreal, Quebec H3A 0C3

Telephone: 514-398-6860
 Fax: 514-398-7361
 Website: www.mcgill.ca/civil

6.12.4.2 About the Department of Civil Engineering and Applied Mechanics

Civil engineers have traditionally applied scientific and engineering knowledge to the task of providing the built environment, from its conception and planning to its design, construction, maintenance, and rehabilitation. Examples include buildings, bridges, roads, railways, dams, and facilities for water supply and treatment, and waste disposal. With the ageing and deterioration of an already vast infrastructure, its maintenance and rehabilitation has become an increasingly important role of the civil engineering profession. Also, with worldwide concern about the detrimental impact of human activities on the environment, civil engineers are now in the forefront of developing and providing the means for both prevention and remediation of many aspects of environmental pollution.

Students who wish to extend their knowledge in certain areas beyond the range that the program complementary courses allow can also take a minor. Minors are available in fields such as Arts, Economics, Management, Environmental Engineering, Construction Engineering and Management, and others. These require additional credits to be taken from a specified list of topics relating to the chosen field. Further information on the various minors may be found in [section 6.12.10: Minor Programs](#). Details of how minors can be accommodated within the Civil Engineering program will be made available at the time of preregistration counselling.

6.12.4.3 Academic Programs

Considerable freedom exists for students to influence the nature of the program of study which they follow in the Department of Civil Engineering and Applied Mechanics. A variety of advanced complementary courses is offered in five main groupings: Environmental Engineering, Geotechnical and Geoenvironmental Engineering, Water Resources and Hydraulic Engineering, Structural Engineering, and Transportation Engineering.

Guidance on the sequence in which required core courses should be taken is provided for students in the form of a sample program which covers the entire period of study. The technical complementary courses selected, usually in the last two terms of the program, will depend upon the student's interests. All students must meet with their adviser each term to confirm the courses for which they are registered.

Courses taken in Term 3 or later will depend on a student's interests and ability. Information and advice concerning different possibilities are made available in the Department prior to registration. All programs require the approval of a staff adviser. Programs for students transferring into the Department with advanced standing will be dependent upon the academic credit previously achieved, and such a program will be established only after consultation with a staff adviser.

6.12.4.4 Department of Civil Engineering and Applied Mechanics Faculty

Chair

Van-Thanh-Van Nguyen

Associate Chair

Yixin Shao

Emeritus Professors

Philip J. Harris; B.Sc.(Manit.), M.Eng., Ph.D.(McG.), F.E.I.C., F.C.S.C.E., Eng.

M. Saeed Mirza; B.Eng.(Karachi), M.Eng., Ph.D.(McG.), F.A.C.I., F.E.I.C., F.C.S.C.E., Hon. F.I.E.P., Eng.

Stuart B. Savage; B.Eng.(McG.), M.S.Eng.(Cal. Tech.), Ph.D.(McG.), F.R.S.C.

Professors

Vincent H. Chu; B.S.Eng.(Taiwan), M.A.Sc.(Tor.), Ph.D.(MIT), Eng.

Denis Mitchell; B.A.Sc., M.A.Sc., Ph.D.(Tor.), F.A.C.I., F.C.A.E., F.C.S.C.E., Eng. (*James McGill Professor*)

Van-Thanh-Van Nguyen; B.M.E.(Vietnam), M.C.E.(A.I.T.), D.A.Sc.(Montr.), Eng.

James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng. (*James McGill Professor*)

A. Patrick S. Selvadurai; M.S.(Stan.), Ph.D., D.Sc.(Nott.), F.E.I.C., F.I.M.A., F.C.S.C.E., P.Eng. (*William Scott Professor of Civil Engineering, James McGill Professor*)

Suresh C. Shrivastava; B.Sc.(Eng.)(Vikram), M.C.E.(Delhi), Sc.D.(Col.), Eng.

Associate Professors

Mohamed A. Meguid; B.Sc.(Cairo, Azhar), M.Sc., Ph.D.(W. Ont.), P.Eng.; Associate Dean, Undergraduate Education

Andrew J. Boyd; B.Sc.Eng.(New Br.), M.A.Sc.(Tor.), Ph.D.(Br. Col.), P.Eng., F.A.C.I.

Luc E. Chouinard; B.Eng., M.Eng.(Montr.), B.C.L.(McG.), Sc.D.(MIT), Eng.

Associate Professors

Susan J. Gaskin; B.Sc.(Qu.), Ph.D.(Cant.), P.Eng.

Ronald Gehr; B.Sc.(Eng.)(Rand), M.A.Sc., Ph.D.(Tor.), P.Eng.

Subhasis Ghoshal; B.C.E.(Jad.), M.S.(Missouri), Ph.D.(Carn. Mell), P.Eng. (*William Dawson Scholar*)

Ghyslaine McClure; B.Eng.(Montr.), S.M.C.E.(MIT), Ph.D.(Montr.), Eng.; Graduate Program Director

Colin Rogers; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Syd.), P.Eng.

Yixin Shao; B.Sc., M.S.(Tongji), Ph.D.(N'western), P.Eng., F.A.C.I.; Undergraduate Program Director

Assistant Professors

Naveen Eluru; B.Sc.(Indian IT), M.Sc., Ph.D.(Texas-Austin)

Dominic Frigon; B.Sc.(Agr.Sci.), M.Sc.(McG.), Ph.D.(Env.Sci.)(Ill.)

Tom Gleeson; B.Sc.(Vic., BC), M.Sc.(S. Fraser), Ph.D.(Qu.)

Marianne Hatzopoulou; B.Sc., M.Sc.(Beirut), Ph.D.(Tor.)

Dimitrios G. Lignos; B.Sc.(Nat. Tech., Athens), M.Sc., Ph.D.(Stan.)

Jinxia Liu; B.Eng., M.Eng.(Tianjin), M.Eng.(Rensselaer Poly.), Ph.D.(Purd.)

Luis Miranda-Moreno; B.Sc., M.Eng.(Mexico), M.Sc., Ph.D.(Wat.)

Adjunct Professors

Sofia Babarutsi

Richard Edwards

John Hadjinicolaou

Jalal Hawari

Konrad Jones

Angela Keane

Zoubir Lounis

Pierre Lundahl

Patrick Maillard

Charles Manatakos

Thanh Son Nguyen

Paul Rodrigue

Sandro Scola

William Taylor

Marc Villeneuve

Jan Vrana

6.12.4.5 Bachelor of Engineering (B.Eng.) - Civil Engineering (139 credits)

Program credit weight: 139 credits

Program credit weight for Quebec CEGEP students: 110 credits

The Civil Engineering program is comprehensive in providing the fundamentals in mechanics and engineering associated with the diverse fields of the profession, in offering choices of specialization, and in fully reflecting the advances in science, mathematics, engineering, and computing that have transformed all fields of engineering in recent years. The resulting knowledge and training enables graduates to not only enter the profession thoroughly well prepared, but also to adapt to further change.

The required courses ensure a sound scientific and analytical basis for professional studies through courses in solid mechanics, fluid mechanics, soil mechanics, environmental engineering, water resources management, structural analysis, systems analysis, and mathematics. Fundamental concepts are applied to various fields of practice in both required and complementary courses.

By a suitable choice of complementary courses, students can attain advanced levels of technical knowledge in the specialized areas mentioned above. Alternatively, students may choose to develop their interests in a more general way by combining complementary courses within the Department with several from other departments or faculties.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 110-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Required Non-Departmental Courses

28 credits

CCOM 206	(3)	Communication in Engineering
COMP 208	(3)	Computers in Engineering
EPSC 221	(3)	General Geology
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 261	(2)	Measurement Laboratory
MECH 289	(3)	Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Civil Engineering Courses

61 credits

CIVE 202	(4)	Construction Materials
CIVE 205	(3)	Statics
CIVE 206	(3)	Dynamics
CIVE 207	(4)	Solid Mechanics
CIVE 208	(3)	Civil Engineering System Analysis
CIVE 210	(2)	Surveying
CIVE 225	(4)	Environmental Engineering
CIVE 290	(3)	Thermodynamics and Heat Transfer

CIVE 302	(3)	Probabilistic Systems
CIVE 311	(4)	Geotechnical Mechanics
CIVE 317	(3)	Structural Engineering 1
CIVE 318	(3)	Structural Engineering 2
CIVE 319	(3)	Transportation Engineering
CIVE 320	(4)	Numerical Methods
CIVE 323	(3)	Hydrology and Water Resources
CIVE 324	(3)	Sustainable Project Management
CIVE 327	(4)	Fluid Mechanics and Hydraulics
CIVE 418	(4)	Design Project
CIVE 432	(1)	Technical Paper

Complementary Courses

21 credits

List A - Design Technical Complementaries

6-15 credits from the following:

CIVE 416	(3)	Geotechnical Engineering
CIVE 421	(3)	Municipal Systems
CIVE 428	(3)	Water Resources and Hydraulic Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 440	(3)	Traffic Engineering and Simulation
CIVE 462	(3)	Design of Steel Structures
CIVE 463	(3)	Design of Concrete Structures

List B - General Technical Complementaries

0-9 credits from the following, or from other suitable undergraduate or 500-level courses:

CHEE 521*	(3)	Nanomaterials and the Aquatic Environment
CIVE 433	(3)	Urban Planning
CIVE 446	(3)	Construction Engineering
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 460	(3)	Matrix Structural Analysis
CIVE 470	(3)	Undergraduate Research Project
CIVE 512	(3)	Advanced Civil Engineering Materials
CIVE 514	(3)	Structural Mechanics
CIVE 520	(3)	Groundwater Hydrology
CIVE 521*	(3)	Nanomaterials and the Aquatic Environment
CIVE 527	(3)	Renovation and Preservation: Infrastructure
CIVE 540	(3)	Urban Transportation Planning
CIVE 542	(3)	Transportation Network Analysis
CIVE 546	(3)	Selected Topics in Civil Engineering 1
CIVE 550	(3)	Water Resources Management
CIVE 551	(3)	Environmental Transport Processes

CIVE 555	(3)	Environmental Data Analysis
CIVE 558	(3)	Biomolecular Techniques for Environmental Engineering
CIVE 560	(3)	Transportation Safety and Design
CIVE 561	(3)	Urban Activity, Air Pollution, and Health
CIVE 572	(3)	Computational Hydraulics
CIVE 573	(3)	Hydraulic Structures
CIVE 574	(3)	Fluid Mechanics of Water Pollution
CIVE 577	(3)	River Engineering
CIVE 584	(3)	Groundwater Engineering

* Students may choose only one of CHEE 521 or CIVE 521.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.5 Department of Electrical and Computer Engineering

6.12.5.1 Location

Department of Electrical and Computer Engineering
Undergraduate Programs Office
Lorne Trottier Building, Room 2060
3630 University Street
Montreal, Quebec H3A 0C6

Telephone: 514-398-3943

Fax: 514-398-4653

Website: www.mcgill.ca/ece

6.12.5.2 About the Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers undergraduate degree programs in Electrical Engineering, Electrical Engineering (Honours), Computer Engineering, and Software Engineering. All programs provide students with a strong background in mathematics, basic sciences, engineering science, engineering design, and complementary studies, in conformity with the requirements of the Canadian Engineering Accreditation Board (CEAB).

In addition to technical complementary courses, students in all three programs take general complementary courses in humanities and social sciences and/or management studies and law. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

6.12.5.3 Department of Electrical and Computer Engineering Faculty

Interim Chair

Fabrice Labeau

Associate Chair, Academic

Roni Khazaka

Associate Chair, Undergraduate Studies

Jonathan P. Webb

Associate Chair, Graduate Studies

Richard Rose

Emeritus Professors

Eric L. Adler; B.Sc.(Lond.), M.A.Sc.(Tor.), Ph.D.(McG.), F.I.E.E.E., Eng.

Pierre R. Bélanger; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Maier L. Blostein; B.Eng., M.Eng.(McG.), Ph.D.(Ill.), F.I.E.E.E., Eng.

Clifford H. Champness; M.Sc.(Lond.), Ph.D.(McG.)

Gerry W. Farnell; B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), F.I.E.E.E., Eng.

Francisco D. Galiana; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Peter Kabal; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

Lorne Mason; B.Eng., Ph.D.(Sask.)

Boon-Teck Ooi; B.E.(Adel.), S.M.(MIT), Ph.D.(McG.), Eng.

Tomas J.F. Pavlasek; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Nicholas C. Rumin; B.Eng., M.Sc., Ph.D.(McG.), Eng.

ProfessorsPeter E. Caines; B.A.(Oxf.), D.I.C., Ph.D.(Lond.), F.R.S.C., F.I.E.E.E., F.C.I.A.R. (*James McGill Professor*) (*Macdonald Professor*)

Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.)

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.), *Associate Dean, Academic Affairs*

James Clark; B.A.Sc., Ph.D.(Br. Col.)

Frank Ferrie; B.Eng., Ph.D.(McG.)

Geza Joos; B.Sc.(C'dia), M.Eng., Ph.D.(McG.) (*CRC Chair*)Andrew Kirk; B.Sc.(Brist.), Ph.D.(Lond.), *Associate Dean, Research and Graduate Education* (*William Dawson Scholar*)

Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)

Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F.I.E.E.E.

Martin D. Levine; B.Eng., M.Eng.(McG.), Ph.D.(Lond.), F.C.I.A.R., F.I.E.E.E., Eng.

David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F.C.A.E., Eng. (*James McGill Professor*)David V. Plant; M.S., Ph.D.(Brown), P.Eng., F.I.E.E.E., F.O.S.A., F.C.A.E. (*James McGill Professor*)Gordon Roberts; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.), F.I.E.E.E., Eng. (*James McGill Professor*)

Jonathan P. Webb; B.A., Ph.D.(Cant.)

Associate Professors

Tal Arbel; M.Eng., Ph.D.(McG.)

Jan Bajcsy; B.Sc.(Harv.), M.Eng., Ph.D.(Princ.)

Benoit Boulet; B.Sc.(Laval), M.Eng.(McG.), Ph.D.(Tor.) (*William Dawson Scholar*)

Vamsy Chodavarapu; B.Eng.(Osmania), M.S., Ph.D.(NYU)

Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.)

Jeremy R. Cooperstock; B.Ap.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)

Mourad El-Gamal; B.Sc.(Cairo), M.Sc.(Nashville), Ph.D.(McG.) (*William Dawson Scholar*)

Associate Professors

Dennis Giannacopoulos; M.Eng., Ph.D.(McG.)
 Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.)
 Roni Khazaka; M.Eng., Ph.D.(Car.)
 Fabrice Labeau; M.S., Ph.D.(Louvain)
 Steve McFee; B.Eng., Ph.D.(McG.)
 Zetian Mi; B.A.Sc.(Beijing), M.Sc.(Iowa), Ph.D.(Mich.)
 Hannah Michalska; B.Sc., M.Sc.(Warsaw), Ph.D.(Lond.)
 Sam Musallam; B.Sc., M.Sc., Ph.D.(Tor.)
 Milica Popovich; B.Sc.(Colo.), M.Sc., Ph.D.(N'western)
 Ioannis Psaromiligkos; B.Sc.(Patras), M.Sc., Ph.D.(Buffalo)
 Martin Rochette; B.A., M.Eng., Ph.D.(Laval)
 Richard Rose; B.Sc., M.S.(Ill.), Ph.D.(GIT)
 Ishiang Shih; M.Eng., Ph.D.(McG.)
 Thomas Szkopek; B.A.Sc., M.A.Sc.(Tor.), Ph.D.(Calif.-LA)
 Zeljko Zilic; B.Eng.(Zagreb), M.Sc., Ph.D.(Tor.)

Assistant Professors

Francois Bouffard; Ph.D.(McG.)
 Odile Liboiron-Ladouceur; M.Sc., Ph.D.(Col.)
 Aditya Mahajan; B.Tech.(Indian IT), M.S., Ph.D.(Mich.)
 Brett Meyer; Ph.D.(Carn. Mellon)
 Michael Rabbat; B.S.(Ill.), M.S.(Texas), Ph.D.(Wisc.)
 Haibo Zeng, Ph.D.(Calif., Berk.)

Associate Members

Gregory Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.)
 Alan C. Evans; M.Sc.(Surrey), Ph.D.(Leeds)
 William R. Funnell; M.Eng., Ph.D.(McG.)
 Henrietta L. Galiana; M.Eng., Ph.D.(McG.)
 Jean Gotman; M.E.(Dart.), Ph.D.(McG.)
 David Juncker; Ph.D.(Neuchatel)
 Robert E. Kearney; M.Eng., Ph.D.(McG.)
 Nathaniel J. Quitoriano; B.S.(Calif.), Ph.D.(MIT)

Adjunct Professors

Rhys Allan Adams
 Robert Diraddo
 Danny Grant
 Cedric Guss
 Vincent Hayward
 Ricardo Izquierdo
 Cheng K. Jen
 Innocent Kamwa
 George Kesidis

Adjunct Professors

Irene Leszkowicz
 Martin Maier
 Shie Mannor
 Frederic Nabki
 Douglas O'Shaughnessy
 Katarzyna Radecka
 Robert Sabourin
 Joshua D. Schwartz
 Leszek Szczecinski
 Claude Thibeault
 Kenneth D. Wagner

6.12.5.4 Bachelor of Engineering (B.Eng.) - Electrical Engineering (138 credits)

Program credit weight: 138-139 credits

Program credit weight for Quebec CEGEP students: 109-110 credits

This program gives students a broad understanding of the key principles that are responsible for the extraordinary advances in the technology of computers, micro-electronics, automation and robotics, telecommunications, and power systems. These areas are critical to the development of our industries and, more generally, to our economy. A graduate of this program is exposed to all basic elements of electrical engineering and can function in any of our client industries. This breadth is what distinguishes an engineer from, say, a computer scientist or physicist.

In addition to technical complementary courses, students in the Electrical Engineering program take general complementary courses in social sciences, administrative studies, and humanities. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 109- to 110-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B)

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

35 credits

CCOM 206	(3)	Communication in Engineering
CIVE 281	(3)	Analytical Mechanics
COMP 202	(3)	Foundations of Programming
FACC 100*	(1)	Introduction to the Engineering Profession

FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 270	(3)	Applied Linear Algebra
MATH 381	(3)	Complex Variables and Transforms
MIME 262	(3)	Properties of Materials in Electrical Engineering
PHYS 271	(3)	Introduction to Quantum Physics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Electrical Engineering Courses

57 credits

ECSE 200	(3)	Electric Circuits 1
ECSE 210	(3)	Electric Circuits 2
ECSE 211	(3)	Design Principles and Methods
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 291	(2)	Electrical Measurements Laboratory
ECSE 303	(3)	Signals and Systems 1
ECSE 304	(3)	Signals and Systems 2
ECSE 305	(3)	Probability and Random Signals 1
ECSE 322	(3)	Computer Engineering
ECSE 323	(5)	Digital System Design
ECSE 330	(3)	Introduction to Electronics
ECSE 334	(3)	Introduction to Microelectronics
ECSE 351	(3)	Electromagnetic Fields
ECSE 352	(3)	Electromagnetic Waves
ECSE 361	(3)	Power Engineering
ECSE 434	(2)	Microelectronics Laboratory
ECSE 443	(3)	Introduction to Numerical Methods in Electrical Engineering
ECSE 456	(3)	ECSE Design Project 1
ECSE 457	(3)	ECSE Design Project 2

Complementary Courses

17-18 credits

Technical Complementaries

9 credits from the following:

ECSE 404	(3)	Control Systems
ECSE 405	(3)	Antennas
ECSE 411	(3)	Communications Systems 1
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 413	(3)	Communications Systems 2

ECSE 414	(3)	Introduction to Telecommunication Networks
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 423	(3)	Fundamentals of Photonics
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Organization and Architecture
ECSE 426	(3)	Microprocessor Systems
ECSE 427	(3)	Operating Systems
ECSE 430	(3)	Photonic Devices and Systems
ECSE 431	(3)	Introduction to VLSI CAD
ECSE 432	(3)	Physical Basis: Transistor Devices
ECSE 435	(3)	Mixed-Signal Test Techniques
ECSE 436	(3)	Signal Processing Hardware
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 451	(3)	EM Transmission and Radiation
ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 462	(3)	Electromechanical Energy Conversion
ECSE 464	(3)	Power Systems Analysis 1
ECSE 465	(3)	Power Electronic Systems
ECSE 467*	(3)	Comportement des réseaux électriques
ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)
ECSE 469*	(3)	Protection des réseaux électriques

* Courses taught in French.

Laboratory Complementaries

2-3 credits from the following:

ECSE 426	(3)	Microprocessor Systems
ECSE 431	(3)	Introduction to VLSI CAD
ECSE 435	(3)	Mixed-Signal Test Techniques
ECSE 436	(3)	Signal Processing Hardware
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 485	(2)	IC Fabrication Laboratory
ECSE 486	(2)	Power Laboratory
ECSE 487	(2)	Computer Architecture Laboratory
ECSE 488	(2)	High Frequency Laboratory
ECSE 489	(2)	Telecommunication Network Laboratory
ECSE 490	(2)	Digital Signal Processing Laboratory
ECSE 491	(2)	Communication Systems Laboratory
ECSE 492	(2)	Optical Communications Laboratory
ECSE 493	(2)	Control and Robotics Laboratory

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

*Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations

MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Enhanced Power Concentration

Students following this program must complete 15 credits of technical complementary courses.

The Institute for Electrical Power Engineering was recently established as a province-wide centre for electrical power engineering education. It is funded by industry, mostly Hydro-Québec, and provides a comprehensive program and state-of-the-art laboratory facilities, and a point of contact between industry and universities involved in power engineering.

Note: This program is open to students in the regular Electrical Engineering program only.

Here are some benefits of the concentration:

A complete and up-to-date final-year program in electrical power engineering, with industry-sponsored and supported courses

Access to industry-sponsored projects, internships and new employment opportunities

ELIGIBILITY CRITERIA

To be considered in September 2013, the applicant must:

- be registered in the B.Eng. program (regular Electrical Engineering);
- have a cumulative GPA of at least 2.5
- have completed or be registered in ECSE 361 (Power Engineering);
- be able to complete the degree requirements by December 2014;
- agree to follow the curriculum requirements set out below.

SELECTION CRITERIA

The number of students selected, expected to be between five and ten, will be the subject of a specific agreement between the University and the Institute. Selection criteria to the Institute will be based on CGPA and on the curriculum vitae. The selection process for the scholarship may involve an interview with the committee presided by Hydro-Québec. There is a possibility of an internship with Hydro-Québec.

CURRICULUM REQUIREMENTS FOR SELECTED STUDENTS

Generally, unless the University has authorized specific substitutions, students must complete the degree requirements set out in this publication with the following specifications:

Technical Complementaries and Laboratories (15 credits)

All students must take (or have taken) five courses from the following:

Required Courses

9 credits

ECSE 462	(3)	Electromechanical Energy Conversion
ECSE 464	(3)	Power Systems Analysis 1
ECSE 465	(3)	Power Electronic Systems

Students must also complete ECSE 456 and 457 (Electrical Engineering Design Projects 1 and 2) on a practical project in power engineering, preferably at the Institute or with a company sponsoring the Institute.

Complementary Courses

6 credits from the following:

ECSE 404	(3)	Control Systems
ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 467*	(3)	Comportement des réseaux électriques
ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)
ECSE 469*	(3)	Protection des réseaux électriques

* Courses taught in French.

Note: ECSE 460, ECSE 464 (Fall semester), ECSE 465, ECSE 467, ECSE 468, and ECSE 469 are courses sponsored by the Institute and taught at École Polytechnique de Montréal.

6.12.5.5 Bachelor of Engineering (B.Eng.) - Honours Electrical Engineering (138 credits)

Program credit weight: 138-139 credits

Entry into the Electrical Engineering Honours Program

The Honours program is a limited enrolment program and entry is highly competitive. There is no direct entry to the Honours program in the first year. Students may enter the Honours program in the following ways:

- Students from CEGEP will be admitted, on the basis of their grades, at the start of the third term.
- Students from outside Quebec will be admitted, on the basis of their grades, at the start of the fifth term.

To remain in the Honours program and to be awarded the Honours degree, a student must have completed at least 14 credits in each term since entering Electrical and Computer Engineering, except for the final two terms of their degree, and maintained a CGPA of at least 3.30 since entering Electrical and Computer Engineering. In either of their final two full terms (i.e., Fall and Winter, or Winter and Fall) students may drop below 14 credits, provided the combined load for the two terms is at least 16 credits. For more information, please contact the Departmental office at 514-398-3943.

Required Year 0 (Freshman) Courses (29 credits)

Note: Students in the Honours Electrical Engineering program complete the Year 0 (Freshman) courses before entering the Honours program, as explained above.

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 109- to 110-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

35 credits

CCOM 206	(3)	Communication in Engineering
CIVE 281	(3)	Analytical Mechanics
COMP 202	(3)	Foundations of Programming
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy

FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 270	(3)	Applied Linear Algebra
MATH 381	(3)	Complex Variables and Transforms
MIME 262	(3)	Properties of Materials in Electrical Engineering
PHYS 271	(3)	Introduction to Quantum Physics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Electrical Engineering Courses

57 credits

ECSE 200	(3)	Electric Circuits 1
ECSE 210	(3)	Electric Circuits 2
ECSE 211	(3)	Design Principles and Methods
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 291	(2)	Electrical Measurements Laboratory
ECSE 303	(3)	Signals and Systems 1
ECSE 304	(3)	Signals and Systems 2
ECSE 305	(3)	Probability and Random Signals 1
ECSE 322	(3)	Computer Engineering
ECSE 323	(5)	Digital System Design
ECSE 330	(3)	Introduction to Electronics
ECSE 334	(3)	Introduction to Microelectronics
ECSE 351	(3)	Electromagnetic Fields
ECSE 352	(3)	Electromagnetic Waves
ECSE 361	(3)	Power Engineering
ECSE 434	(2)	Microelectronics Laboratory
ECSE 498	(3)	Honours Thesis 1
ECSE 499	(3)	Honours Thesis 2
ECSE 543	(3)	Numerical Methods in Electrical Engineering

Complementary Courses

17-18 credits

Technical Complementaries

9 credits chosen from 500-level ECSE courses OR 6 credits chosen from 500-level ECSE courses and 3 credits chosen from the following list of 400-level courses (no more than one 400-level course can be chosen as a technical complementary):

ECSE 425	(3)	Computer Organization and Architecture
ECSE 427	(3)	Operating Systems
ECSE 451	(3)	EM Transmission and Radiation

Laboratory Complementaries

2-3 credits from the following:

ECSE 426	(3)	Microprocessor Systems
ECSE 431	(3)	Introduction to VLSI CAD
ECSE 435	(3)	Mixed-Signal Test Techniques
ECSE 436	(3)	Signal Processing Hardware
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 485	(2)	IC Fabrication Laboratory
ECSE 486	(2)	Power Laboratory
ECSE 487	(2)	Computer Architecture Laboratory
ECSE 488	(2)	High Frequency Laboratory
ECSE 489	(2)	Telecommunication Network Laboratory
ECSE 490	(2)	Digital Signal Processing Laboratory
ECSE 491	(2)	Communication Systems Laboratory
ECSE 492	(2)	Optical Communications Laboratory
ECSE 493	(2)	Control and Robotics Laboratory

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirements.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.5.6 Bachelor of Engineering (B.Eng.) - Computer Engineering (139 credits)

Program credit weight: 139-143 credits

Program credit weight for CEGEP students: 113-114 credits

Program credit weight for out-of-province students: 139-140 credits

The Computer Engineering program provides students with greater depth and breadth of knowledge in the hardware and software aspects of computers. Students are exposed to both theoretical and practical issues of both hardware and software in well-equipped laboratories. Although the program is designed to meet the growing demands by industry for engineers with a strong background in modern computer technology, it also provides the underlying depth for graduate studies in all fields of Computer Engineering.

In addition to technical complementary courses, students in the program take general complementary courses in social sciences, management studies, and humanities. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 113- to 114-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Administrative Studies, and Law, listed below under Complementary Studies (Group B).

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

35 credits

CCOM 206	(3)	Communication in Engineering
CIVE 281	(3)	Analytical Mechanics
COMP 202	(3)	Foundations of Programming
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 270	(3)	Applied Linear Algebra
MATH 363	(3)	Discrete Mathematics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Computer Engineering Courses

58 credits

ECSE 200	(3)	Electric Circuits 1
ECSE 210	(3)	Electric Circuits 2
ECSE 211	(3)	Design Principles and Methods
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 291	(2)	Electrical Measurements Laboratory
ECSE 305	(3)	Probability and Random Signals 1
ECSE 306	(3)	Fundamentals of Signals and Systems
ECSE 321	(3)	Introduction to Software Engineering
ECSE 322	(3)	Computer Engineering
ECSE 323	(5)	Digital System Design
ECSE 330	(3)	Introduction to Electronics
ECSE 334	(3)	Introduction to Microelectronics
ECSE 353	(3)	Electromagnetic Fields and Waves
ECSE 414	(3)	Introduction to Telecommunication Networks
ECSE 425	(3)	Computer Organization and Architecture

ECSE 426	(3)	Microprocessor Systems
ECSE 427	(3)	Operating Systems
ECSE 456	(3)	ECSE Design Project 1
ECSE 457	(3)	ECSE Design Project 2

Complementary Courses

17-21 credits

Basic Science Complementary Courses (for CEGEP students only)

0-3 credits

Students from CEGEP are required to complete one 3-credit course at the 200-level or higher, chosen from the following science departments, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering:

Atmospheric and Oceanic Sciences (ATOC)

Biology (BIOL)

Chemistry (CHEM)

Earth and Planetary Sciences (EPSC)

Earth System Science (ESYS)

Physics (PHYS)

Technical Complementaries

9 credits from the following:

500-level ECSE courses are restricted to students with a minimum CGPA of 3.0 and B+ or better in prerequisite courses.

COMP 424	(3)	Artificial Intelligence
ECSE 404	(3)	Control Systems
ECSE 411	(3)	Communications Systems 1
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 424	(3)	Human-Computer Interaction
ECSE 428	(3)	Software Engineering Practice
ECSE 429	(3)	Software Validation
ECSE 431	(3)	Introduction to VLSI CAD
ECSE 436	(3)	Signal Processing Hardware
ECSE 443	(3)	Introduction to Numerical Methods in Electrical Engineering
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 530	(3)	Logic Synthesis
ECSE 532	(3)	Computer Graphics
ECSE 537	(3)	Advanced Digital Integrated Circuits
ECSE 548	(3)	Introduction to VLSI Systems

Laboratory Complementaries

2-3 credits from the following:

ECSE 434	(2)	Microelectronics Laboratory
ECSE 436	(3)	Signal Processing Hardware

ECSE 487	(2)	Computer Architecture Laboratory
ECSE 489	(2)	Telecommunication Network Laboratory
ECSE 490	(2)	Digital Signal Processing Laboratory
ECSE 491	(2)	Communication Systems Laboratory
ECSE 493	(2)	Control and Robotics Laboratory

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200-level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing

BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100- level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200- level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.5.7 Bachelor of Software Engineering (B.S.E.) - Software Engineering (137 credits)

Program credit weight: 137-144 credits

Program credit weight for CEGEP students: 114-115 credits

Program credit weight for out-of-province students: 137-140 credits

This program offers students the opportunity to focus their studies on the skills needed to design and develop complex software systems. This emerging field of engineering is a major component of the growing Information Technology (IT) sector of the economy, in which the demand for qualified personnel continues to outstrip supply. Graduates of this program will have a solid foundation for careers in the software industry.

In addition to technical complementary courses, students take general complementary courses in social sciences, management studies, and humanities. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 112- to 115-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents/> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B)

Required Courses

76 credits

COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 421	(3)	Database Systems
ECSE 211	(3)	Design Principles and Methods
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 321	(3)	Introduction to Software Engineering
ECSE 322	(3)	Computer Engineering
ECSE 323	(5)	Digital System Design
ECSE 414	(3)	Introduction to Telecommunication Networks
ECSE 420	(3)	Parallel Computing
ECSE 427	(3)	Operating Systems
ECSE 428	(3)	Software Engineering Practice
ECSE 429	(3)	Software Validation
ECSE 456	(3)	ECSE Design Project 1
ECSE 457	(3)	ECSE Design Project 2
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 270	(3)	Applied Linear Algebra
MATH 363	(3)	Discrete Mathematics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Engineering Breadth Required Courses

20 credits

CCOM 206	(3)	Communication in Engineering
ECSE 200	(3)	Electric Circuits 1
ECSE 210	(3)	Electric Circuits 2
ECSE 291	(2)	Electrical Measurements Laboratory
ECSE 305	(3)	Probability and Random Signals 1
ECSE 306	(3)	Fundamentals of Signals and Systems
FACC 300	(3)	Engineering Economy

Complementary Courses

12-19 credits

Basic Science Complementary Courses (for CEGEP students only)

0-6 credits

Students from CEGEP are required to complete two 3-credit courses at the 200- level or higher, chosen from the following science departments, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering:

Atmospheric and Oceanic Sciences (ATOC)

Biology (BIOL)

Chemistry (CHEM)

Earth and Planetary Sciences (EPSC)

Earth System Science (ESYS)

Physics (PHYS)

Technical Complementaries

6-7 credits

500-level ECSE courses are restricted to students with a minimum CGPA of 3.0 and B+ or better in prerequisite courses.

Not all courses listed are offered in a given year. See the "Courses" section of this publication to know if a course is offered.

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 409	(3)	Concurrent Programming
COMP 424	(3)	Artificial Intelligence
COMP 520	(4)	Compiler Design
COMP 557*	(3)	Fundamentals of Computer Graphics
COMP 566	(3)	Discrete Optimization 1
COMP 575	(3)	Fundamentals of Distributed Algorithms
ECSE 404	(3)	Control Systems
ECSE 411	(3)	Communications Systems 1
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 413	(3)	Communications Systems 2
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Organization and Architecture
ECSE 426	(3)	Microprocessor Systems
ECSE 504	(3)	Sampled Data Control
ECSE 507	(3)	Optimization and Optimal Control
ECSE 523	(3)	Speech Communications
ECSE 529	(3)	Computer and Biological Vision
ECSE 530	(3)	Logic Synthesis
ECSE 532*	(3)	Computer Graphics
ECSE 570	(3)	Automatic Speech Recognition

* Students choose either COMP 557 or ECSE 532.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200-level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1

ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100-level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200-level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.6 Department of Mechanical Engineering

6.12.6.1 Location

Macdonald Engineering Building, Room 270
817 Sherbrooke Street West
Montreal, Quebec H3A 0C3

Telephone: 514-398-6296

Fax: 514-398-7365

Website: www.mcgill.ca/mecheng

6.12.6.2 About the Department of Mechanical Engineering

Mechanical engineers are traditionally concerned with the conception, design, implementation, and operation of mechanical systems. Typical fields of work are aerospace, energy, manufacturing, machinery, and transportation. Because of the very broad nature of the discipline, there is usually a high demand for mechanical engineers.

Many mechanical engineers follow other career paths. Graduate studies are useful for the specialists working in research establishments, consulting firms, or in corporate research and development.

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

Concentrations in Aeronautical Engineering, Mechatronics*, and Design are available for students in either the regular or Honours program who wish to specialize in these areas.

While the program is demanding, there is time for many extracurricular activities. Students are active in such professional societies as CASI (Canadian Aeronautics and Space Institute), SAE (Society of Automotive Engineers), and ASME (American Society of Mechanical Engineers), and in various campus organizations.

Relations between faculty and students are extremely close. Social functions, at which students and professors meet to exchange views and get to know each other better, are organized frequently.



Note: * The Mechatronics Concentration will not be offered until further notice.

6.12.6.3 Department of Mechanical Engineering Faculty

Chair

Arun K. Misra

Emeritus Professors

Abdul M. Ahmed; B.Sc.(Dhaka), M.Eng., Ph.D.(McG.), Eng. (*Thomas Workman Emeritus Professor of Mechanical Engineering*)

Romuald Knystautas; B.Eng., M.Eng., Ph.D.(McG.), ing.

Dan Mateescu; M.Eng.(Poli. U. Buch.), Ph.D.(Rom. Acad. Sci.), Doctor Honoris Causa(Poli. U. Buch.), F.C.A.S.I., A.F.A.I.A.A., Erskine Fellow(Cant.)

Michael P. Pa doussis; B.Eng.(McG.), Ph.D.(Camb.), ing., F.I.Mech.E., F.A.S.M.E., F.A.A.M., F.C.S.M.E., F.R.S.C., F.C.A.E. (*Thomas Workman Emeritus Professor of Mechanical Engineering*)

Stuart J. Price; B.Sc., Ph.D.(Brist.), P.Eng.

Post-Retirement

Lucjan Kops; B.Eng., M.Eng., D.Sc.Eng.(Krakow Tech.), ing., F.C.I.R.P., F.A.S.M.E., F.C.S.M.E., M.S.M.E.

Vince Thomson; B.Sc.(Windsor), Ph.D.(McM.)

Paul J. Zsombor-Murray; B.Eng., M.Eng., Ph.D.(McG.), ing., F.C.S.M.E.

Professors

Marco Amabili; M.Eng.(Ancona), Ph.D.(Bologna); F.A.S.M.E. (*Tier 1 Canada Research Chair*)

Jorge Angeles; B.Eng., M.Eng.(UNAM Mexico), Ph.D.(Stan.), Eng., F.A.S.M.E., F.I.E.E.E., F.C.S.M.E., F.R.S.C., F.C.A.E., Doctor Honoris Causa(U. Guanajuato, Mexico) (*James McGill Professor*)

Bantwal R. Baliga; B.Tech.(IIT, Kanpur), M.Sc.(Case West.), Ph.D.(Minn.), P.Eng.

Eliot Fried; A.B.(Calif., Berk.), B.S.(Calif. Poly.), M.S., Ph.D.(Calif. Tech.) (*Tier 1 Canada Research Chair*)

Wagdi G. Habashi; B.Eng., M.Eng.(McG.), Ph.D.(C'nell), ing., C.Q., F.R.S.C., F.C.A.E., F.A.I.A.A., F.A.S.M.E. (*NSERC-J. Armand Bombardier-Bell-Helicopter-CAE Industrial Research Chair*)

George Haller; M.S.(Budapest Tech.), Ph.D.(Calif. Tech.) (*Faculty of Engineering Distinguished Professor*)

Pascal Hubert; B.Eng., M.Sc.(École Poly., Montr.), Ph.D.(Br. Col.), ing. (*William Dawson Scholar*), *Aerospace Program Coordinator*

John H.S. Lee; B.Eng.(McG.), M.Sc.(MIT), Ph.D.(McG.), ing., F.R.S.C., F.C.A.E.

Arun K. Misra; B.Tech.(IIT, Kharagpur), Ph.D.(Br. Col.), P.Eng., F.A.A.S., F.A.I.A.A., F.C.A.E. (*Thomas Workman Professor of Mechanical Engineering*)

Luc Mongeau; B.Sc., M.Sc.(École Poly., Montr.), Ph.D.(Penn. St.), ing., A.S.A., S.A.E., A.S.M.E., A.I.A.A. (*Tier 1 Canada Research Chair*), *Graduate Program Director*

Meyer Nahon; B.Sc.(Qu.), M.Sc.(Tor.), Ph.D.(McG.), ing., A.F.A.I.A.A.

Associate Professors

Francois Barthelat; M.Sc.(Roch.), Ph.D.(N'western), ing.

Jeffrey M. Bergthorson; B.Sc.(Manit.), M.Sc., Ph.D.(Calif. Tech), P.Eng.

Luca Cortelezzi; M.Sc., Ph.D.(Calif. Tech.)

David L. Frost; B.A.Sc.(Br. Col.), M.S., Ph.D.(Calif. Tech.), P.Eng.

Andrew J. Higgins; B.Sc.(Ill.), M.S., Ph.D.(Wash.)

Jozsef Kövecses; M.Sc.(U. Miskolc), Ph.D.(Hung. Acad. Sci.), ing.

Tim Lee; M.S.(Port. St.), Ph.D.(Idaho)

Larry B. Lessard; B.Eng.(McG.), M.Sc., Ph.D.(Stan.), ing., *Undergraduate Program Director*

Rosaire Mongrain; B.Sc., M.Sc.(Montr.), Ph.D.(École Poly., Montr.), ing. (*William Dawson Scholar*)

Laurent Mydlarski; B.A.Sc.(Wat.), Ph.D.(C'nell), ing.

Siva Nadarajah; B.Sc.(Math), B.Sc.(Aero.Eng.)(Kansas), M.Sc., Ph.D.(Stan.), *Director, Graduate Admissions and Scholarships*

Damiano Pasini; M.Sc.(Pavia), Ph.D.(Brist.), ing.

Peter Radziszewski; B.A.Sc.(Br. Col.), M.Sc., Ph.D.(Laval), ing.

Inna Sharf; B.A.Sc., Ph.D.(Tor.), P.Eng.

Evgeny V. Timofeev; M.Sc., Ph.D.(STU, St. Peters.), Eng., A.F.A.I.A.A.

Srikar T. Vengallatore; B.Tech.(BHU), Ph.D.(MIT) (*Tier 2 Canada Research Chair*)

Assistant Professors

James R. Forbes; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.)

Michael Kokkolaras; Dipl. Aerospace Eng.(Tech. Univ. Munich), Ph.D.(Rice)

Mathias Legrand; M.Sc.(École Centrale, Nantes); Ph.D.(École Centrale, Nantes)

Xinyu Liu; B.Eng., M.Eng.(Harbin Inst. Tech.), Ph.D.(Tor.) (*Chwang-Seto Faculty Scholar*)

Yaoyao Fiona Zhao; B.Sc.(BIT), M.Sc., Ph.D.(Auck.)

Adjunct Professors

Helmi Attia

Farhang Daneshmand

Sudarshan Martins

Christophe Pierre

Course Lecturers

Youki Cropas

Anthony Rodolakis

Angelo Segall

Josef Slanik

Dino Zorbas

6.12.6.4 Bachelor of Engineering (B.Eng.) - Mechanical Engineering (142 credits)

Program credit weight: 142-148 credits

Program credit weight for CEGEP students: 119 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design engineering courses which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

Special interests are satisfied by selecting appropriate complementary courses from among those offered with a specific subject concentration, such as management, industrial engineering, computer science, controls and robotics, bio-engineering, aeronautics, combustion, systems engineering, etc.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 118-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

33 credits

CCOM 206	(3)	Communication in Engineering
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computers in Engineering
ECSE 461	(3)	Electric Machinery
FACC 100	(1)	Introduction to the Engineering Profession

FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271	(3)	Linear Algebra and Partial Differential Equations
MIME 260	(3)	Materials Science and Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mechanical Engineering Courses

65 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 314	(3)	Dynamics of Mechanisms
MECH 315	(4)	Mechanics 3
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation
MECH 393	(3)	Machine Element Design
MECH 412	(3)	System Dynamics and Control
MECH 430	(3)	Fluid Mechanics 2
MECH 463D1	(3)	Mechanical Engineering Project
MECH 463D2	(3)	Mechanical Engineering Project

Technical Complementary Courses

9 credits

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2

MECH 513	(3)	Control Systems
MECH 529	(3)	Discrete Manufacturing Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aircraft Structures
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 557	(3)	Mechatronic Design
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 573	(3)	Mechanics of Robotic Systems
MECH 577	(3)	Optimum Design
MECH 593	(3)	Design Theory and Methodology

* Students select either CHEE 563 or MECH 563.

3 credits chosen from courses at the 300 level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from courses in the Faculty of Science, including MATH courses.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227, and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Elective Courses

0-6 credits

Students from Quebec CEGEPs must take 6 credits of courses at the 200 level or higher from the following faculties/schools:

Desautels Faculty of Management

Faculty of Agricultural and Environmental Sciences

Faculty of Arts

Faculty of Engineering

Faculty of Religious Studies

Faculty of Science

Schulich School of Music

Typical Program of Study

Students entering the program from Quebec CEGEPs follow a different curriculum from those entering from outside the province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, please see <http://www.mcgill.ca/mecheng/undergrad/curriculum>.

For all minors and concentrations, students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the minor or concentration.

6.12.6.5 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering (142 credits)

Program credit weight: 142-148 credits

Program credit weight for CEGEP students: 119 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design Engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program is particularly suitable for those with a high aptitude in mathematics and physics and gives a thorough grounding in the basic engineering sciences.

Special interests are satisfied by selecting appropriate complementary courses from among those offered with a specific subject concentration, such as management, industrial engineering, computer science, controls and robotics, bio-engineering, aeronautics, combustion, systems engineering, etc.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

27 credits

CCOM 206	(3)	Communication in Engineering
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computers in Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271	(3)	Linear Algebra and Partial Differential Equations

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mechanical Engineering Courses

62 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation
MECH 403D1	(3)	Thesis (Honours)
MECH 403D2	(3)	Thesis (Honours)
MECH 404	(3)	Honours Thesis 2
MECH 419	(4)	Advanced Mechanics of Systems
MECH 430	(3)	Fluid Mechanics 2
MECH 494	(3)	Honours Design Project

Technical Complementary Courses

18 credits

3 credits from the following, chosen with the approval of either the thesis supervisor or the coordinator of the Honours program, when a thesis supervisor has not yet been secured:

MATH 327	(3)	Matrix Numerical Analysis
MATH 381	(3)	Complex Variables and Transforms
MATH 417	(3)	Mathematical Programming

6 credits from the following:

MECH 513	(3)	Control Systems
MECH 546	(3)	Finite Element Methods in Solid Mechanics
MECH 562	(3)	Advanced Fluid Mechanics
MECH 577*	(3)	Optimum Design
MECH 578	(3)	Advanced Thermodynamics
MECH 579*	(3)	Multidisciplinary Design Optimization

* Note: Students select either MECH 577 or MECH 579

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2
MECH 513	(3)	Control Systems
MECH 529	(3)	Discrete Manufacturing Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aircraft Structures
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 557	(3)	Mechatronic Design
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 573	(3)	Mechanics of Robotic Systems
MECH 577*	(3)	Optimum Design
MECH 593	(3)	Design Theory and Methodology

*Students choose either CHEE 563 or MECH 563

3 credits chosen from courses at the 300-level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from MIME 260 or from courses at the 300 level or higher in the Faculty of Science, including MATH courses.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability

MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B: Humanities and Social Sciences, Management Studies and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Elective Courses

0-6 credits

Students from Quebec CEGEPs must take 6 credits of courses at the 200 level or higher from the following faculties/schools:

Desautels Faculty of Management

Faculty of Agricultural and Environmental Sciences

Faculty of Arts

Faculty of Engineering

Faculty of Religious Studies

Faculty of Science

Schulich School of Music

Typical Program of Study

Students entering the program from CEGEP follow a different curriculum from those entering from out of province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, see <http://www.mcgill.ca/mecheng/undergrad/curriculum>.

For all minors and concentrations, students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the minor or concentration.

6.12.6.6 Bachelor of Engineering (B.Eng.) - Mechanical Engineering - Aeronautical Engineering (15 credits)

Students in this concentration take five courses in the area of Aeronautical Engineering. All courses must be passed with a grade of C or better.

Students should discuss their course selection with their adviser and complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Required Courses

6 credits

MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 533	(3)	Subsonic Aerodynamics

Complementary Courses

9 credits

3-6 credits from the following:

MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aircraft Structures

3-6 credits from the following:

MECH 537	(3)	High-Speed Aerodynamics
MECH 538	(3)	Unsteady Aerodynamics
MECH 539	(3)	Computational Aerodynamics
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 566	(3)	Fluid-Structure Interactions

6.12.6.7 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering - Aeronautical Engineering (15 credits)

Students in this concentration take five courses in the area of aeronautical engineering. All courses must be passed with a grade of C or better.

Students should discuss their course selection with their adviser and complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Required Courses

6 credits

MECH 532	(3)	Aircraft Performance, Stability and Control

MECH 533	(3)	Subsonic Aerodynamics

Complementary Courses

9 credits

3-6 credits from the following:

MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aircraft Structures

3-6 credits from the following:

MECH 537	(3)	High-Speed Aerodynamics
MECH 538	(3)	Unsteady Aerodynamics
MECH 539	(3)	Computational Aerodynamics
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 566	(3)	Fluid-Structure Interactions

6.12.6.8 Bachelor of Engineering (B.Eng.) - Mechanical Engineering - Design (15 credits)

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

Students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Total concentration credit weight: 15-16 credits

Required Courses

6 credits

MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2

Complementary Courses

9-10 credits from the following:

ARCH 515	(3)	Sustainable Design
CHEE 453	(4)	Process Design
MECH 497	(3)	Value Engineering
MECH 526	(3)	Manufacturing and the Environment
MECH 528	(3)	Product Design
MECH 530	(3)	Mechanics of Composite Materials
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 557	(3)	Mechatronic Design
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 576	(3)	Geometry in Mechanics
MECH 577	(3)	Optimum Design
MECH 579	(3)	Multidisciplinary Design Optimization
MECH 593	(3)	Design Theory and Methodology

6.12.6.9 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering - Design (15 credits)

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

Students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Total concentration credit weight: 15-16 credits

Required Courses

6 credits

MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2

Complementary Courses

9-10 credits from the following:

ARCH 515	(3)	Sustainable Design
CHEE 453	(4)	Process Design
MECH 497	(3)	Value Engineering
MECH 526	(3)	Manufacturing and the Environment
MECH 528	(3)	Product Design
MECH 530	(3)	Mechanics of Composite Materials
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 557	(3)	Mechatronic Design
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 576	(3)	Geometry in Mechanics
MECH 577	(3)	Optimum Design
MECH 579	(3)	Multidisciplinary Design Optimization
MECH 593	(3)	Design Theory and Methodology

6.12.6.10 Bachelor of Engineering (B.Eng.) - Mechanical Engineering - Mechatronics (18 credits)

Not offered until further notice.

Students in this concentration take six courses in the area of control, robotics, and/or CAD/CAM.

Students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Required Courses

12 credits

MECH 513	(3)	Control Systems
MECH 554	(3)	Microprocessors for Mechanical Systems
MECH 557	(3)	Mechatronic Design
MECH 572	(3)	Introduction to Robotics

Complementary Courses

6 credits from the following:

MECH 528	(3)	Product Design

MECH 541	(3)	Kinematic Synthesis
MECH 573	(3)	Mechanics of Robotic Systems
MECH 576	(3)	Geometry in Mechanics

6.12.6.11 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering - Mechatronics (18 credits)

Not offered until further notice.

Students in this concentration take six courses in the area of control, robotics, and/or CAD/CAM.

Students should complete a Course Authorization Form, available from the Student Affairs Office (Engineering Student Centre) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Required Courses

12 credits

MECH 513	(3)	Control Systems
MECH 554	(3)	Microprocessors for Mechanical Systems
MECH 557	(3)	Mechatronic Design
MECH 572	(3)	Introduction to Robotics

Complementary Courses

6 credits from the following:

MECH 528	(3)	Product Design
MECH 541	(3)	Kinematic Synthesis
MECH 573	(3)	Mechanics of Robotic Systems
MECH 576	(3)	Geometry in Mechanics

6.12.7 Department of Mining and Materials Engineering

6.12.7.1 Location

General Office:

Wong Building, Room 2140
3610 University Street
Montreal, Quebec H3A 0C5

Website: www.mcgill.ca/minmat

Materials

Wong Building, Room 2140
3610 University Street
Montreal, Quebec H3A 0C5
Telephone: 514-398-1040
Fax: 514-398-4492
Email: coordinator.minmat@mcgill.ca

Mining

Frank Dawson Adams Building, Room 125
3450 University Street
Montreal, Quebec H3A 0E8
Telephone: 514-398-2215

Mining

Fax: 514-398-7099

Email: admin.mining@mcgill.ca**6.12.7.2 About the Department of Mining and Materials Engineering**

The Department of Mining and Materials Engineering offers programs leading to the Bachelor of Engineering degree in Materials Engineering or Mining Engineering. In addition to regular courses and laboratories, the curriculum includes seminars, colloquia, and student projects reinforced by field trips to industrial operations.

For more information, refer to:

[section 6.12.7.4.3: Bachelor of Engineering \(B.Eng.\) - Materials Engineering CO-OP \(147 credits\)](#)

[section 6.12.7.5.3: Bachelor of Engineering \(B.Eng.\) - Mining Engineering CO-OP \(149 credits\)](#)

6.12.7.2.1 Scholarships

The Department offers renewable Entrance Scholarships every year. A substantial number of other scholarships and bursaries are also awarded by the Department as well as by the Canadian Mineral Industry Education Foundation.

6.12.7.3 Department of Mining and Materials Engineering Faculty**Chair**

Stephen Yue

Associate Chair, Student Affairs

Mathieu Brochu

Associate Chair, Research

James A. Finch

Associate Chair, Graduate Studies

George P. Demopoulos

Emeritus Professors

John E. Gruzleski; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.), Eng., F.C.I.M., F.A.S.M. (*Gerald G. Hatch Emeritus Professor*)

John J. Jonas; B.Eng.(McG.), Ph.D.(Camb.), Eng., F.A.S.M., F.R.S.C. (*Henry Birks Emeritus Professor*)

Gordon W. Smith; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Professors

George P. Demopoulos; Dipl.Eng.(NTU Athens), M.Sc., Ph.D.(McG.), Eng., F.C.I.M. (*Gerald Hatch Faculty Fellow*) (on leave 2013–2014)

Roussos Dimitrakopoulos; B.Sc.(Thessaloniki), M.Sc.(Alta.), Ph.D.(École Poly., Montr.) (*Canada Research Chair I*)

James A. Finch; B.Sc.(Birm.), M.Eng., Ph.D.(McG.), Eng., F.C.I.M., F.R.S.C. (*Gerald G. Hatch Professor*)

Raynald Gauvin; B.Eng., Ph.D.(Montr.), Eng.

Roderick I.L. Guthrie; B.Sc., Ph.D.(Lond.), D.I.C., A.R.S.M., Eng., F.C.I.M., F.R.S.C. (*William C. Macdonald Professor*)

Faramarz (Ferri) P. Hassani; Ph.D.(Nott.), C.Eng.(U.K. Reg.) (*George Boyd Webster Professor*)

Hani S. Mitri; B.Sc.(Cairo), M.Eng., Ph.D.(McM.), Eng.

Stephen Yue; B.Sc., Ph.D.(Leeds) (*James McGill Professor*) (*Lorne Trottier Chair in Aerospace Engineering*)

Associate Professors

Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.) (*Canada Research Chair II*)

Richard Chromik; B.Sc.(Penn. St.), M.Sc., Ph.D.(SUNY)

Mainul Hasan; B.Eng.(Dhaka), M.Sc.(Dhahran), Ph.D.(McG.)

Mustafa Kumral; B.Eng.(Hacettepe), M.Eng.(Cukurova), Ph.D.(Leeds)

Associate Professors

Frank Mucciardi; B.Eng., M.Eng., Ph.D.(McG.), Eng.
 Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.) (*Gerald Hatch Faculty Fellow*)
 Mihriban Pekguleryuz; B.Eng., M.Eng.(Flor.), Ph.D.(McG.)

Assistant Professors

Kirk Bevan; Ph.D.(Purd.)
 Marta Cerruti; B.Sc., Ph.D., Laurea in Chemistry (Torino)
 In-Ho Jung; B.Sc.(POSTECH), Ph.D.(École Poly., Montr.) (*Gerald Hatch Faculty Fellow*) (*William Dawson Scholar*)
 Jun Song; Ph.D., M.Sc.(Princ.)
 Nathaniel Quitarano; B.Sc.(Calif., Berk.), Ph.D.(MIT)
 Kristian Waters; M.Sc., M.Eng.(Manc.), Ph.D.(Birm.)

Faculty Lecturer

Florence Paray; B.Eng.(CSP), M.Eng., Ph.D.(McG.)

Course Lecturer

Bruno Benedetto

Adjunct Professors

Mostafa Benzaazoua
 Marc Bétournay
 Martin Bureau
 Robin A.L. Drew
 Daryoush Emadi
 Elhachmi Essadiqi
 Carlton Fuerst
 Mory Ghomshei
 Bryn Harris
 Ahmad Hemami
 Wynand J. Kleingeld
 Eric Lifshin
 Arun Mujumdar
 Jan Nessett
 Joe Stachulak
 Karim Zaghib

Co-op Program Liaison Officers

Teresa Barrett (Mining)
 Genevieve Snider (Materials)

6.12.7.4 About Materials Engineering

6.12.7.4.1 Materials Engineering (Co-op)

The Materials Engineering degree is a cooperative program leading to a B.Eng. and includes formal industrial work periods. It is built on a strong background of mathematics, basic sciences, computer skills and applications, and specific engineering and design courses to provide up-to-date training in materials engineering. Students take core courses covering processing, fabrication, applications, and performance of materials, namely metals, ceramics, polymers, and composites. The program is fully accredited by the Canadian Engineering Accreditation Board (CEAB) and is designed to offer students exceptional training for employment in the field. The core courses are supplemented by complementary courses, which provide a diverse selection of specialties for the

graduating engineer. The course structure is reinforced with laboratory exercises. Graduates find employment in a wide range of industries, including the resource and manufacturing sectors. Students in the Co-op program benefit from practical learning experience gained from work-term employment in meaningful engineering jobs, as well as non-tangible learning experiences arising from the responsibilities required to obtain and successfully complete the work terms.

Regarding the Co-op program fees, an amount of \$200 will be billed during ten consecutive terms for a total amount of \$2,000 before graduation. These fees cover expenses directly related to the operation of the Co-op program. Students must register for each of their industrial training courses within the university registration period for returning students or late fees will apply. Before registering for any work term course, students must contact the Materials Co-op Liaison Officer for approval.

6.12.7.4.2 Student Advising

Students entering this program must plan their schedule of studies in consultation with one of the departmental advisers. Appointments may be obtained by contacting the Administrative and Student Affairs Coordinator.

6.12.7.4.3 Bachelor of Engineering (B.Eng.) - Materials Engineering CO-OP (147 credits)

Program credit weight: 147-148 credits

Program credit weight for CEGEP students: 118-119 credits

In addition to regular courses and laboratories, the B.Eng. Materials Engineering curriculum includes seminars, colloquia, and student projects reinforced by field trips to industrial operations.

Students entering this program must plan their schedule of studies in consultation with a departmental adviser.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 118- to 119-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

33 credits

CCOM 206	(3)	Communication in Engineering
CHEM 233	(3)	Topics in Physical Chemistry
CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computers in Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers

MECH 289 (3) Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Materials Engineering Courses

67-70 credits

ECSE 461*	(3)	Electric Machinery
MIME 209	(3)	Mathematical Applications
MIME 212	(3)	Engineering Thermodynamics
MIME 250	(3)	Introduction to Extractive Metallurgy
MIME 261	(3)	Structure of Materials
MIME 280	(2)	Industrial Training 1
MIME 311	(3)	Modelling and Automatic Control
MIME 317	(3)	Analytical and Characterization Techniques
MIME 337*	(2)	Electrotechnology
MIME 341	(3)	Introduction to Mineral Processing
MIME 345	(3)	Applications of Polymers
MIME 350	(3)	Extractive Metallurgical Engineering
MIME 352	(3)	Hydrochemical Processing
MIME 356	(4)	Heat, Mass and Fluid Flow
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 380	(2)	Industrial Training 2
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 452	(4)	Process and Materials Design
MIME 455	(3)	Advanced Process Engineering
MIME 456	(3)	Steelmaking and Steel Processing
MIME 465	(3)	Metallic and Ceramic Powders Processing
MIME 467	(3)	Electronic Properties of Materials
MIME 480	(2)	Industrial Training 3

* Students choose either ECSE 461 or MIME 337

Complementary Courses

18 credits

Technical Complementaries

12 credits

9-12 credits from the following:

CHEE 515*	(3)	Material Surfaces: A Biomimetic Approach
CIVE 512	(3)	Advanced Civil Engineering Materials
MECH 530	(3)	Mechanics of Composite Materials
MIME 410	(3)	Research Project
MIME 470	(3)	Engineering Biomaterials
MIME 512	(3)	Corrosion and Degradation of Materials

MIME 515*	(3)	Material Surfaces: A Biomimetic Approach
MIME 542	(3)	Transmission Electron Microscopy
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 551	(3)	Electrochemical Processing
MIME 556	(3)	Sustainable Materials Processing
MIME 558	(3)	Engineering Nanomaterials
MIME 559	(3)	Aluminum Physical Metallurgy
MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 568	(3)	Topics in Advanced Materials
MIME 569	(3)	Electron Beam Analysis of Materials
MIME 571	(3)	Surface Engineering
MIME 572	(3)	Computational Thermodynamics

* Students choose either CHEE 515 or MIME 515

0-3 credits from the following:

BMDE 504	(3)	Biomaterials and Bioperformance
CHEM 574	(3)	Introductory Polymer Chemistry
CHEM 585	(3)	Colloid Chemistry
PHYS 558	(3)	Solid State Physics

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics

RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level or higher in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.7.5 About Mining Engineering

6.12.7.5.1 Mining Engineering (Co-op)

McGill is proud to be the host of the oldest mining engineering program in Canada, which started in 1871. The program is known for the excellence of its courses as well as the training it provides in mining technology, mineral economics, and mine design. The minerals industry is currently going through an expansion phase that has never been seen before. This is highly beneficial to both our graduate and undergraduate students. Tremendous career opportunities are available in Canada and around the world. There have been rapid technical developments in recent years, presenting a challenge to the creative student with a strong interest in engineering and a taste for innovative solutions.

The Department offers a co-operative program leading to the accredited B.Eng. degree in Mining Engineering. It includes four paid industrial work terms. The Co-op program is offered in collaboration with the mining engineering program at *École Polytechnique* in Montreal. Students registered at McGill are required to take a series of Mining courses at *École Polytechnique* in the latter part of the program. These courses are designated by subject code MPMC in the program.

Students must register for each work term (MIME 290, MIME 291, MIME 392, MIME 494) and pay associated fees by the Course Change (add/drop) registration deadline or else late fees will apply. Before registering for any work term course, students must contact the Mining Co-op Liaison Officer for approval.

6.12.7.5.2 Student Advising

Students entering this program must plan their schedule of studies in consultation with one of the departmental advisers: Professor Ferri Hassani or Professor Hani Mitri.

6.12.7.5.3 Bachelor of Engineering (B.Eng.) - Mining Engineering CO-OP (149 credits)

Program credit weight: 149-151 credits

Program credit weight for CEGEP students: 120-122 credits

In addition to regular courses and laboratories, the curriculum of the B.Eng. Mining Engineering Co-op program includes seminars, colloquia, and student projects reinforced by field trips to industrial operations.

Students entering this program must plan their schedule of studies in consultation with a departmental adviser.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 120- to 122-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/student/sao/newstudents> and select your term of admission.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B)

Required Non-Departmental Courses

34 credits

CCOM 206	(3)	Communication in Engineering
CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computers in Engineering
EPSC 221	(3)	General Geology
EPSC 225	(1)	Properties of Minerals
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 289	(3)	Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mining Engineering Courses

72-73 credits

ECSE 461*	(3)	Electric Machinery
MIME 200	(3)	Introduction to the Minerals Industry
MIME 203	(2)	Mine Surveying
MIME 209	(3)	Mathematical Applications
MIME 260	(3)	Materials Science and Engineering
MIME 290	(2)	Industrial Work Period 1
MIME 291	(2)	Industrial Work Period 2
MIME 322	(3)	Rock Fragmentation
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 325	(3)	Mineral Industry Economics
MIME 333	(3)	Materials Handling
MIME 337*	(2)	Electrotechnology
MIME 340	(3)	Applied Fluid Dynamics
MIME 341	(3)	Introduction to Mineral Processing
MIME 392	(2)	Industrial Work Period 3
MIME 413	(3)	Strategic Mine Planning With Uncertainty
MIME 419	(3)	Surface Mining
MIME 420	(3)	Feasibility Study
MIME 422	(3)	Mine Ventilation
MIME 425	(3)	Applied Stochastic Orebody Modelling
MIME 426	(3)	Development and Services
MPMC 321**	(3)	Mécanique des roches et contrôle des terrains
MPMC 326**	(3)	Recherche opérationnelle I
MPMC 328**	(3)	Environnement et gestion des rejets miniers
MPMC 329**	(2)	Géologie minière
MPMC 330**	(3)	Géotechnique minière
MPMC 421**	(3)	Exploitation en souterrain

* Students choose either MIME 337 or ECSE 461

** Mining courses taken at École Polytechnique

Complementary Courses

8-9 credits of Departmental complementary courses, selected from Stream A or Stream B, as described below.

Stream A

8 credits

MIME 494	(2)	Industrial Work Period 4

and 6 credits from the Technical Complementaries list below

OR

Stream B

6 credits

MIME 350	(3)	Extractive Metallurgical Engineering
MIME 544	(3)	Analysis: Mineral Processing Systems 1

and 3 credits from the Technical Complementaries list below

Technical Complementaries

Courses can be chosen from the following or from any other approved technical courses in Engineering, Management, or Science.

Note: Not all courses are given annually; see the "Courses" section of this publication to know if a course is offered.

MIME 320	(3)	Extraction of Energy Resources
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 484	(3)	Mining Project
MIME 520	(3)	Stability of Rock Slopes
MIME 521	(3)	Stability of Underground Openings
MIME 526	(3)	Mineral Economics
MIME 527	(3)	Selected Topics in Mineral Resource Engineering
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MPMC 320*	(3)	CAO et informatique pour les mines

* Mining course taken at École Polytechnique

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MECH 526	(3)	Manufacturing and the Environment
MGPO 440*	(3)	Strategies for Sustainability
MIME 308	(3)	Social Impact of Technology
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG)

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
INDR 294*	(3)	Introduction to Labour-Management Relations
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Marketing Management 1
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Language Courses

If you are not proficient in a certain language, no more than 3 credits will be given for one 6-credit course at the 100 level in that language. A maximum of 3 credits of language courses will be counted toward the Complementary Studies requirement.

However, 3-6 credits may be given for language courses at the 200 level or higher that have a sufficient cultural component. These courses must be approved by the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

6.12.8 School of Urban Planning

6.12.8.1 Location

Macdonald-Harrington Building, Room 400
815 Sherbrooke Street West
Montreal, Quebec H3A 0C2

Telephone: 514-398-4075

Fax: 514-398-8376

Email: admissions.planning@mcgill.ca

Website: www.mcgill.ca/urbanplanning

6.12.8.2 About the School of Urban Planning

Urban planning can be described as the collective management of urban development. It is concerned with the welfare of communities, control of the use of land, design of the built environment, including transportation and communication networks, and protection and enhancement of the natural environment. It is at once a technical and a political process that brings together actors from the public, private, and community spheres. Planners participate in that process in a variety of ways, as designers and analysts, advocates and mediators, facilitating the search for equitable and efficient solutions to problems of urban change and development.

Modern urban planning developed into a profession largely as a response to the appalling sanitary, social, and economic conditions of rapidly developing industrial cities. Initially, the disciplines of architecture, landscape architecture, civil engineering, and public health provided the nucleus of concerned professionals; beautification schemes and infrastructure works marked the early stages of public intervention in the 19th century. Architects, engineers, and public health specialists were joined by economists, sociologists, lawyers, and geographers as the complexities of the city's problems came to be more fully understood and public pressure mounted for their solution. Contemporary urban and regional planning techniques for survey, analysis, design, and implementation developed from an interdisciplinary synthesis of these various fields. This multidisciplinary nature is still a hallmark of planning practice and of planning education.

McGill was the first university in Canada to offer a planning degree, starting in 1947. The School of Urban Planning itself was established as an independent unit in 1972. Today, it brings together students from various fields (such as those mentioned above) and different parts of the world in a professional master's program and an *ad hoc* Ph.D. program. Key features of the work done at the school are the use of real-world projects for learning, a focus on policy-relevant research, and strong engagement with the community, both in Canada and abroad.

The School has a long track record of research, capacity-building and consulting in developing regions as well as in Montreal and other Canadian cities. Faculty and students collaborate actively with members of other McGill departments, notably Architecture, Geography, Civil Engineering, and Law, and with colleagues at other institutions in Canada and abroad. Alumni of the School work as planners and designers at various levels of government, in non-profit organizations, and with private consulting firms. Their expertise ranges from urban design to transportation planning, from housing policy to computer modelling. They devote their efforts in increasing numbers to environmental planning and sustainable development.

The objective of the School is to enable young urban planners to exercise leadership in the public, private, and community sectors. Training is provided at the postgraduate level. The main degree offered is the Master of Urban Planning (M.U.P.). Many specializations are possible within the program; one of them, in Transportation Planning, is formally recognized as a concentration. M.U.P. students in the core program may also opt to spend a semester in Barbados as part of the Barbados Field Study Semester, which focuses on global environmental issues. Details concerning each of these concentrations can be found at www.mcgill.ca/urbanplanning/programs/mup-transportation-planning (see also www.tram.mcgill.ca), and at www.mcgill.ca/bfss, respectively. Upon completion of the two-year program of studies, graduates are expected to have acquired basic planning skills, a broad understanding of urban issues, and specialized knowledge in a field of their own choice. The School also welcomes a small number of students into its *ad hoc* Ph.D. in Urban Planning, Policy, and Design. That program aims to prepare students for careers in high-level research and teaching.

The professional program of study offered by the School is fully recognized by the *Ordre des Urbanistes du Québec* (O.U.Q.) and the Canadian Institute of Planners (C.I.P.). Graduates may become full members of the O.U.Q. and other provincial planning associations, and therefore of C.I.P., by completing their respective internship and examination requirements. Similar requirements must be met for admission to the American Institute of Certified Planners (A.I.C.P.) and other such organizations. For details of the M.U.P. admission requirements and curriculum, consult the School's website at www.mcgill.ca/urbanplanning as well as *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Graduate > Academic Programs > Urban Planning* (available at www.mcgill.ca/study).

Although the M.U.P. program is primarily a professional degree program, it has a very important research component. The work done on the Supervised Research Project in the course of the second year of study qualifies for funding by federal and provincial funding agencies such as SSHRC, NSERC, FQRSC, and FQRNT. Some students enter the M.U.P. program with fellowships from these agencies; others obtain them after joining the School, for their second year of study.

The School of Urban Planning hosts a number of events that are open to undergraduate students and to the public: the Brenda and Samuel Gewurz Lectures in Urban Design bring speakers of international calibre to McGill; the Transportation Research Group at McGill holds seminars on issues pertaining to various aspects of urban and regional transportation; and the urban.studies@mcgill seminars bring speakers from academia, the profession and the community to talk about contemporary urban issues.

For details of the M.U.P. admission requirements and curriculum, consult the *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies at www.mcgill.ca/study.

6.12.8.3 Undergraduate Courses in Urban Planning

The following courses taught by faculty in the School of Urban Planning are open to undergraduate students:

Undergraduate Courses in Urban Planning		
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 550	(3)	Urban Planning and Development
CIVE 433	(3)	Urban Planning and Development
URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems

Undergraduate Courses in Urban Planning

URBP 506	(3)	Environmental Policy and Planning
URBP 507	(3)	Planning and Infrastructure
URBP 519	(6)	Sustainable Development Plans
URBP 520	(3)	Globalization: Planning and Change
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3
URBP 551	(3)	Understanding Urban Change

6.12.8.4 School of Urban Planning Faculty

Director

Raphaël Fischler

Emeritus Professors

David Farley; B.Arch.(McG.), M.Arch., M.C.P.(Harv.)

Jane Matthews-Glenn; B.A., LL.B.(Qu.), D. en droit(Strasbourg)

Associate Professors

Madhav G. Badami; B.Tech., M.S.(IIT, Madr.), M.E.Des.(Calg.), Ph.D.(Br. Col.) (*joint appt. with McGill School of Environment*)

Lisa Bornstein; B.Sc.(Calif., Berk.), M.R.P.(C'nell), Ph.D.(Calif., Berk.)

David F. Brown; B.A.(Bishop's), M.U.P.(McG.), Ph.D.(Sheff.)

Ahmed Elgeneidy; B.Sc., M.Sc.(Alexandria), Ph.D.(Port. St.)

Raphaël Fischler; B.Eng.(U. Tech. Eindhoven), M.Sc., M.C.P.(MIT), Ph.D.(Calif., Berk.)

Nik Luka; B.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.) (*joint appt. with School of Architecture*)

Adjunct Professors

Cameron Charlebois; B.Sc.(Arch.), B.Arch., M.B.A.(McG.)

Murtaza Haider; B.Sc.(NWFP UET-Pesh.), M.A.Sc., Ph.D.(Tor.)

Marc-André Lechasseur; LL.B.(Sher.), LL.M.(Montr.)

Mario Polèse; B.A.(CUNY), M.A., Ph.D.(Penn.)

Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.)

Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

Guest Lecturers

Heather Braiden

Suzanne Doucet

Paul LeCavalier

Denis Lévesque

James McGregor

Pierre Morissette

Larry Sherman

Martin Wexler

6.12.9 Faculty of Engineering Related Programs

6.12.9.1 Bioresource Engineering

The Faculty of Engineering cooperates with the Faculty of Agricultural and Environmental Sciences in providing courses of instruction for a curriculum in agricultural and biosystems engineering to meet requirements for a professional degree awarded in the Faculty of Agricultural and Environmental Sciences. For details, refer to the B.Eng.(Bioresource) program requirements in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Agricultural and Environmental Sciences*.

Some of the courses offered by the Department of Bioresource Engineering (subject code BREE) may be of interest to students in the Faculty of Engineering. The Department of Bioresource Engineering is located in the Faculty of Agricultural and Environmental Sciences on the Macdonald campus:

Department of Bioresource Engineering
Macdonald-Stewart Building, Room MS1-027
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, Quebec H9X 3V9
Telephone: 514-398-7773
Fax: 514-398-8387
Website: www.mcgill.ca/bioeng

6.12.9.2 Department of Biomedical Engineering

Lyman Duff Medical Sciences Building
3775 University Street
Montreal, Quebec H3A 2B4
Telephone: 514-398-6736
Website: www.bmed.mcgill.ca

Some of the courses offered by the Department of Biomedical Engineering (subject code BMDE) may be of interest to Engineering students, and may be approved as complementary courses. The Faculty of Engineering also offers a Minor in Biomedical Engineering; for more information, see [section 6.12.10.2.1: Bachelor of Engineering \(B.Eng.\) - Minor Biomedical Engineering \(21 credits\)](#).

6.12.10 Minor Programs

This section includes general information concerning minors that are designed for students in the Faculty of Engineering.

Minors are coherent sequences of courses taken in addition to the courses required for the B.Eng., B.S.E., or B.Sc.(Arch.) degree. Minors normally consist of 18–24 credits, allowing 9–12 credits of overlap with the degree program. The real credit cost to the student is typically 9–15 credits, representing one term beyond the B.Eng., B.S.E., or B.Sc.(Arch.) degree program. All courses in a minor must be passed with a grade of C or better.

Engineering students choose from a considerable variety of complementary courses under the categories of technical and complementary studies. Students should refer to their department for information concerning selection of complementary courses, and should see their department adviser. Departments also publish information regarding the choice of courses in this publication and in separate documents.



Note: Students are also permitted to register for minor concentrations offered by departments in the Faculty of Arts. Students must obtain approval from both the department in the Faculty of Arts and from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22), before registering in one of these minors.

Minor Programs:

- [section 6.12.10.1: Arts Minor](#)
- [section 6.12.10.2: Biomedical Engineering Minor](#)
- [section 6.12.10.3: Biotechnology Minor](#)
- [section 6.12.10.4: Chemistry Minor](#)
- [section 6.12.10.5: Computer Science Courses and Minor Program](#)
- [section 6.12.10.6: Construction Engineering and Management Minor](#)
- [section 6.12.10.7: Economics Minor](#)
- [section 6.12.10.8: Minor in Environment](#)
- [section 6.12.10.9: Environmental Engineering Minor](#)
- [section 6.12.10.10: Minor Programs in Finance, Management, Marketing, and Operations Management](#)
- [section 6.12.10.11: Materials Engineering Minor](#)
- [section 6.12.10.12: Mathematics Minor](#)

- [section 6.12.10.13: Mining Engineering Minor](#)
- [section 6.12.10.14: Minor in Musical Science and Technology](#)
- [section 6.12.10.15: Physics Minor](#)
- [section 6.12.10.16: Software Engineering Minor](#)
- [section 6.12.10.17: Technological Entrepreneurship Minor](#)

6.12.10.1 Arts Minor

The Arts Minor is open to B.Sc.(Arch.), B.Eng., and B.S.E. students. In this Minor, students choose courses from two areas of concentration in the Faculty of Arts, approved by a Faculty Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22), or by the Senior Faculty Adviser in the Faculty of Arts. B.Eng. and B.S.E. students may count some of their Complementary Studies courses toward this Minor.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) OR Donald Sedgwick (Senior Faculty Adviser, Faculty of Arts)

6.12.10.1.1 Bachelor of Engineering (B.Eng.) - Minor Arts (24 credits)

Minor Adviser: Faculty Student Adviser in the Engineering Student Centre (Frank Dawson Adams Building, Room 22) OR Donald Sedgwick (Senior Faculty Adviser, Faculty of Arts)

B.Sc.(Arch.), B.Eng., and B.S.E. students may obtain the Arts Minor as part of their B.Eng., B.S.E., or B.Sc.(Arch.) degree by completing 24 credits, as described below.

Students must select courses for this Minor in consultation with one of the Advisers indicated above.

All courses in the Minor must be passed with a grade of C or better.

Requirements

24 credits as follows:

- At least two areas of concentration in the Faculty of Arts must be chosen, with a minimum of 6 credits in any one area.
- At least 12 credits must be at the 300 level or higher.

In general, B.Eng. and B.S.E. students may use courses from the Complementary Studies lists (Group A and Group B) in their program that are offered by the Faculty of Arts to satisfy some of these requirements. No more than 9 credits of these courses can be credited toward the Arts Minor.

6.12.10.2 Biomedical Engineering Minor

Biomedical engineering can be defined as the application of engineering principles to medicine and the life sciences. Students in the Biomedical Engineering Minor take courses in life sciences (anatomy, biology, chemistry, and physiology) and choose courses from area(s) within the field of biomedicine (artificial cells and organs; bioinformatics, genomics, and proteomics; biomaterials, biosensors, and nanotechnology; biomechanics and prosthetics; medical physics and imaging; and neural systems and biosignal processing).

Minor Adviser: Prof. R. Leask (Wong Building, Room 4120) or Prof. R. Mongrain (Macdonald Engineering Building, Room 369)

6.12.10.2.1 Bachelor of Engineering (B.Eng.) - Minor Biomedical Engineering (21 credits)

Minor Advisers: Prof. R. Leask (Wong Building, Room 4120) or Prof. R. Mongrain (Macdonald Engineering Building, Room 369)

Note: Open to all students in the Faculty of Engineering (including B.S.E. students).

Minor program credit weight: 21-25 credits

The Biomedical Engineering Minor allows access to courses in basic life sciences and is intended to expose students to the interdisciplinary tools used in biomedicine.

To complete this Minor, students must obtain a grade of C or better in all approved courses and satisfy the requirements of both the major program and the Minor.

Students considering this Minor should contact the Minor Advisers listed above.

Complementary Introductory Courses in Life Sciences

3-7 credits

One or two courses from the following list (equivalents can be approved):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Specialization Courses

12-18 credits from the following:

Students must select 6 credits from courses outside their department and at least one BMDE course. These BMDE courses are best taken near the end of the program, when prerequisites are satisfied.

Artificial Cells and Organs

BMDE 505	(3)	Cell and Tissue Engineering
CHEE 562	(3)	Engineering Principles in Physiological Systems
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

Bioinformatics, Genomics and Proteomics

ANAT 365*	(3)	Cellular Trafficking
ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 458*	(3)	Membranes and Cellular Signaling
BMDE 506	(3)	Molecular Biology Techniques
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods
COMP 526	(3)	Probabilistic Reasoning and AI

* Students choose either ANAT 365 or BIOC 458

Biomaterials, Biosensors, and Nanotechnology

BMDE 504	(3)	Biomaterials and Bioperformance
BMDE 505	(3)	Cell and Tissue Engineering
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
CHEE 380	(3)	Materials Science
ECSE 424	(3)	Human-Computer Interaction
MECH 553	(3)	Design and Manufacture of Microdevices
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 470	(3)	Engineering Biomaterials
PHYS 534	(3)	Nanoscience and Nanotechnology

Biomechanics and Prosthetics

BMDE 503	(3)	Biomedical Instrumentation
CHEE 561	(3)	Introduction to Soft Tissue Biophysics
CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 315	(4)	Mechanics 3
MECH 321	(3)	Mechanics of Deformable Solids
MECH 530	(3)	Mechanics of Composite Materials
MECH 561	(3)	Biomechanics of Musculoskeletal Systems
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties

* Students choose either CHEE 563 or MECH 563.

Medical Physics and Imaging

BMDE 519	(3)	Biomedical Signals and Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 424	(3)	Artificial Intelligence
COMP 558	(3)	Fundamentals of Computer Vision
ECSE 303	(3)	Signals and Systems 1
ECSE 304	(3)	Signals and Systems 2
ECSE 412	(3)	Discrete Time Signal Processing
PHYS 557	(3)	Nuclear Physics

Neural Systems and Biosignal Processing

BMDE 501	(3)	Selected Topics in Biomedical Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 519	(3)	Biomedical Signals and Systems
ECSE 526	(3)	Artificial Intelligence
PHYS 413	(3)	Physical Basis of Physiology

Complementary Courses

0-6 credits

Up to 6 credits in the B.Eng., B.S.E., or B.Sc.(Arch.) program can also be credited to the Minor, with the permission of the Departmental Adviser and approval of the Minor Adviser. In particular, courses at the 200- level or higher that are prerequisites for certain specialization courses would be eligible, with permission of the Minor Adviser. By careful selection of complementary courses, the Minor can be satisfied with 9 additional credits in the student's major program or a maximum of 12 credits of overlap with the major program.

6.12.10.3 Biotechnology Minor

Biotechnology can be defined as the science of understanding, selecting, and promoting useful organisms and specific gene products for therapeutic purposes. It requires a broad comprehension of biology and engineering and detailed knowledge of at least one basic subject such as molecular genetics, protein chemistry, microbiology, or chemical engineering.

The Minor in Biotechnology, offered by the Faculty of Engineering and the Faculty of Science, emphasizes an area relevant to biotechnology that is complementary to the student's main program. It is designed specifically for Chemical Engineering students; other Engineering students interested in taking

this Minor should contact a faculty student adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Students who are interested in this Minor should inform their departmental academic adviser in Year 1 and at the time of registration in Year 2. With the agreement of their departmental academic adviser, students must submit a Request for Course Authorization to the Engineering Student Centre in order to add the Minor.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22)

Faculty of Science Adviser (for selection of Science courses only): Nancy Nelson, Undergraduate Adviser, Department of Biology

6.12.10.31 Bachelor of Engineering (B.Eng.) - Minor Biotechnology (for Engineering Students) (24 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22). For advising regarding Science courses, contact Nancy Nelson, Undergraduate Adviser, Department of Biology, Faculty of Science.

This Minor is offered by the Faculty of Engineering and the Faculty of Science for students who wish to take biotechnology courses that are complementary to their area. It has been designed specifically for Chemical Engineering students; other Engineering students who are interested in the Minor should contact a Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

To obtain the Biotechnology Minor, students must complete 24 credits, 18 of which must be exclusively for the Minor. Approved substitutions must be made for any of the required courses that are part of the student's major program.

The Department of Chemical Engineering permits students taking this Minor to complete BIOT 505 (Selected Topics in Biotechnology) as one of their technical complementary courses. Chemical Engineering students complete 15 credits beyond their 141-credit (115-credit for CEGEP students) B.Eng. program to obtain this Minor.

Required Courses

12 credits

BIOT 505	(3)	Selected Topics in Biotechnology
CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 474	(3)	Biochemical Engineering

OR

Alternative Required Courses (for Chemical Engineering students)

A Chemical Engineering student may complete the Biotechnology Minor by taking the courses below plus one course from the list of complementary courses, not including FACC 300.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOT 505	(3)	Selected Topics in Biotechnology
MIMM 211	(3)	Introductory Microbiology

Complementary Courses

12 credits selected from courses outside the Department of the student's major program and/or from the lists below. If courses are chosen from the lists below, at least three courses must be taken from one area of concentration as grouped.

Biomedicine

ANAT 541	(3)	Cell and Molecular Biology of Aging
EXMD 504	(3)	Biology of Cancer
PATH 300	(3)	Human Disease

Chemistry

CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry

CHEM 552 (3) Physical Organic Chemistry

General

FACC 300 (3) Engineering Economy

Immunology

ANAT 261 (4) Introduction to Dynamic Histology

BIOC 503 (3) Immunochemistry

MIMM 214 (3) Introductory Immunology: Elements of Immunity

MIMM 414 (3) Advanced Immunology

PHGY 513 (3) Cellular Immunology

Management

Note: Engineering students may not use these courses to count toward a Management minor, nor toward the Complementary Studies requirement.

ECON 208 (3) Microeconomic Analysis and Applications

MGCR 211 (3) Introduction to Financial Accounting

MGCR 341 (3) Finance 1

MGCR 352 (3) Marketing Management 1

MGCR 472 (3) Operations Management

Microbiology

MIMM 323 (3) Microbial Physiology

MIMM 324 (3) Fundamental Virology

MIMM 413 (3) Parasitology

MIMM 465 (3) Bacterial Pathogenesis

MIMM 466 (3) Viral Pathogenesis

Molecular Biology (Biology)

BIOL 300 (3) Molecular Biology of the Gene

BIOL 314 (3) Molecular Biology of Oncogenes

BIOL 520 (3) Gene Activity in Development

BIOL 524 (3) Topics in Molecular Biology

BIOL 551 (3) Principles of Cellular Control

Molecular Biology (Biochemistry)

BIOC 311 (3) Metabolic Biochemistry

BIOC 312 (3) Biochemistry of Macromolecules

BIOC 450 (3) Protein Structure and Function

BIOC 454 (3) Nucleic Acids

PSYT 455 (3) Neurochemistry

Physiology

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

Pollution

Note: Engineering students may not use these courses to count toward the Environmental Engineering Minor.

CIVE 225	(4)	Environmental Engineering
CIVE 430	(3)	Water Treatment and Pollution Control

6.12.10.4 Chemistry Minor

The Departments of Chemistry and Chemical Engineering offer this Chemistry Minor, of particular interest to Chemical Engineering students, and a Chemical Engineering Minor, of interest to Chemistry students; see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Chemistry* (available at www.mcgill.ca/study). Students taking the Chemistry Minor complete 10 credits of required courses in physical and organic chemistry, and choose an additional 15 credits of complementary courses from the areas of inorganic, analytical, organic, and physical chemistry.

Minor Adviser: Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

For more information about the Chemical Engineering Minor, see Prof. David Cooper (Chemical Engineering).

6.12.10.4.1 Bachelor of Engineering (B.Eng.) - Minor Chemistry (25 credits)

Minor Adviser (program coordinator): Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

Program credit weight: 25 credits

A passing grade for courses in the Minor is a C.

Required Courses

10 credits

CHEE 310*	(3)	Physical Chemistry for Engineers
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 233*	(3)	Topics in Physical Chemistry
CHEM 234**	(3)	Topics in Organic Chemistry

* Students choose either CHEM 233 or CHEE 310

** or CEGEP equivalent

Complementary Courses

15 credits from the following lists, two courses of which must be laboratory courses (* indicates lab).

Note that CHEM 212 is a prerequisite for most of the courses listed below, and CHEM 223 (Introductory Physical Chemistry 1) and CHEM 243 (Introductory Physical Chemistry 2) or their equivalents are prerequisites for the Physical Chemistry courses. If students take CHEM 222 (Introductory Organic Chemistry 2), which includes a lab, instead of CHEM 234, they will receive credit for one of the two required laboratory courses, but they must complete a total of 25 credits in chemistry for the Minor.

Inorganic Chemistry

CHEM 281	(3)	Inorganic Chemistry 1
CHEM 371*	(2)	Inorganic Chemistry Laboratory

CHEM 381	(3)	Inorganic Chemistry 2
CHEM 591	(3)	Bioinorganic Chemistry

Analytical Chemistry

CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297*	(1)	Introductory Analytical Chemistry Laboratory
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2

Organic Chemistry

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362*	(2)	Advanced Organic Chemistry Laboratory
CHEM 382	(3)	Organic Chemistry: Natural Products

Physical Chemistry

CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 393*	(2)	Physical Chemistry Laboratory 2
CHEM 574	(3)	Introductory Polymer Chemistry

6.12.10.5 Computer Science Courses and Minor Program

The School of Computer Science offers an extensive range of courses for Engineering students interested in computers. Engineering students may obtain a Computer Science Minor as part of their B.Eng., B.S.E., or B.Sc.(Arch.) degree by completing 24 credits of courses, passed with a grade of C or better.

Minor Adviser: Students interested in this Minor should see Liette Chin, Undergraduate Program Coordinator (School of Computer Science, Lorne Trottier Building, Room 2070) and the Minor Adviser in Computer Science.

School of Computer Science website: www.cs.mcgill.ca

6.12.10.5.1 Computer Science Courses in Engineering Programs

The School of Computer Science offers an extensive range of courses for Engineering students interested in computers. The course taken by students in most B.Eng. programs (COMP 208) and other courses included in the core of the various B.Eng. and B.S.E. programs are listed below.

See *Programs, Courses and University Regulations > All Courses* (available at www.mcgill.ca/study) for other courses offered by the School of Computer Sciences (subject code COMP).

Computer Science Courses in Engineering Programs

COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 208	(3)	Computers in Engineering
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 421	(3)	Database Systems

6.12.10.5.2 Bachelor of Engineering (B.Eng.) - Minor Computer Science (24 credits)

Minor Adviser: Students interested in this Minor should see Liette Chin, Undergraduate Program Coordinator, in the School of Computer Science (Lorne Trottier Building, Room 2070) to obtain the appropriate forms, and should see both the Minor Adviser in Computer Science and their department adviser

for approval of their course selection. Forms must be submitted and approved before the end of the Course Change (drop/add) period of the student's final term.

Note: This Minor is open to B.Eng., B.S.E., and B.Sc.(Arch.) students in Engineering.

Engineering students may obtain the Computer Science minor as part of their B.Eng., B.S.E., or B.Sc.(Arch.) degree by completing the 24-credits of courses passed with a grade of C or better. In general, some complementary courses within B.Eng. and B.S.E. programs may be used to satisfy some of these requirements, but the Minor will require at least 12 extra credits from Computer Science (COMP) courses beyond those needed for the B.Eng. or B.S.E. degree. Students should consult their departments about the use of complementaries, and credits that can be double counted.

Note: COMP 202 and COMP 208 (compulsory for some Engineering students do not form part of the Minor in Computer Science.

For more information, see the School of Computer Science website: <http://www.cs.mcgill.ca>.

Required Courses

6 credits

COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses

18 credits

3 credits from the following:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development

3 credits from the following:

COMP 273	(3)	Introduction to Computer Systems
ECSE 221	(3)	Introduction to Computer Engineering

3 credits from the following:

COMP 350	(3)	Numerical Computing
MECH 309	(3)	Numerical Methods in Mechanical Engineering

0-3 credits from the following:

COMP 251	(3)	Algorithms and Data Structures

6-9 credits chosen from other Computer Science courses at the 300 level or higher.

Notes:

A. COMP 208 may be taken before COMP 250; however, it cannot be taken for credit in the same term or afterward.

B. COMP 396 (Undergraduate Research Project) cannot be taken for credit toward this Minor.

Courses that make considerable use of computing from other departments may also be selected, with the approval of the School of Computer Science. Students should consult with their advisers about counting specific courses.

6.12.10.6 Construction Engineering and Management Minor

Students taking the Minor in Construction Engineering and Management complete 15 credits of required courses in management and law. Students choose complementary courses from the areas of either building structures or heavy construction, and from other construction- and management-related courses.

This Minor is particularly designed for Civil Engineering students.

Minor Adviser: Prof. L. Chouinard, Macdonald Engineering Building, Room 491 (Telephone: 514-398-6446)

6.12.10.6.1 Bachelor of Engineering (B.Eng.) - Minor Construction Engineering and Management (24 credits)

Minor Adviser: Prof. L. Chouinard, Macdonald Engineering Building, Room 491 (Telephone: 514-398-6446)

Minor program credit weight: 24-25 credits

Note: This Minor is particularly designed for Civil Engineering students but, is open to all B.Eng., B.S.E., and B.Sc.(Arch.) students.

All courses in the Minor must be passed with a grade of C or better.

Prerequisites

CIVE 208	(3)	Civil Engineering System Analysis
CIVE 302	(3)	Probabilistic Systems
COMP 208	(3)	Computers in Engineering
FACC 300	(3)	Engineering Economy

Required Courses: Management and Law

15 credits

CIVE 324	(3)	Sustainable Project Management
FACC 220	(3)	Law for Architects and Engineers
INDR 294	(3)	Introduction to Labour-Management Relations
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Finance 1

Complementary Courses

3-4 credits (4 credits from List A OR 3 credits from List B)

List A - Building Structures

4 credits from the following:

ARCH 447	(2)	Lighting
ARCH 451	(2)	Building Regulations and Safety
ARCH 554	(2)	Mechanical Services
CIVE 492	(2)	Structures

OR

List B - Heavy Construction

3 credits from the following:

MIME 322	(3)	Rock Fragmentation
MIME 333	(3)	Materials Handling

Construction-Related Complementary Courses

6 credits from the following:

BUSA 462	(3)	Management of New Enterprises
CIVE 446	(3)	Construction Engineering
CIVE 527	(3)	Renovation and Preservation: Infrastructure
ECSE 461	(3)	Electric Machinery
FINE 445	(3)	Real Estate Finance
MIME 520	(3)	Stability of Rock Slopes

MIME 521	(3)	Stability of Underground Openings
MPMC 321*	(3)	Mécanique des roches et contrôle des terrains

* Course offered in French at École Polytechnique in Montreal

6.12.10.7 Economics Minor

Engineering students who want to complete a minor in Economics are required to complete the following program rather than one of the minor concentrations offered by the Department of Economics in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > Economics* (available at www.mcgill.ca/study), unless they have obtained permission from the Faculty of Engineering.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22)

6.12.10.7.1 Bachelor of Engineering (B.Eng.) - Minor Economics (18 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Program credit weight: 18 credits

This Minor consists of 18 credits of required and complementary courses given in the Economics Department. In addition, it is presumed that all Engineering students will have a sufficient background in statistics. Engineering Economy, FACC 300, does not form part of this Minor. Engineering students who want to complete a minor in economics are required to complete the following program rather than one of the minor concentrations offered by the Department of Economics in the Faculty of Arts section of this publication, unless they have obtained permission from the Faculty of Engineering.

All courses in the Minor must be passed with a grade of C or better.

Required Courses

9 credits

ECON 209*	(3)	Macroeconomic Analysis and Applications
ECON 230D1**	(3)	Microeconomic Theory
ECON 230D2**	(3)	Microeconomic Theory

* This requirement is waived for students who choose ECON 330D1/ECON 330D2 from the list of complementary courses. Students may not take both ECON 209 and ECON 330D1/ ECON 330D2.

** Students may, with consent of instructor, take ECON 250D1/ ECON 250D2 Introduction to Economic Theory: Honours, in place of ECON 230D1/ECON 230D2.

Complementary Courses

9 credits from:

ECON 225	(3)	Economics of the Environment
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 311	(3)	United States Economic Development
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 316	(3)	The Underground Economy
ECON 326	(3)	Ecological Economics
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory
ECON 331	(3)	Economic Development: Russia and USSR
ECON 335	(3)	The Japanese Economy
ECON 337	(3)	Introductory Econometrics 1
ECON 344	(3)	Industrial Revolution and Economic Development
ECON 345	(3)	The International Economy since 1914

ECON 347	(3)	Economics of Climate Change
ECON 348	(3)	Urban Economics
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 420	(3)	Topics in Economic Theory
ECON 426	(3)	Labour Economics
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 447	(3)	Economics of Information and Uncertainty
ECON 468	(3)	Econometrics 1 - Honours
ECON 469	(3)	Econometrics 2 - Honours
ECON 525	(3)	Project Analysis
ECON 546	(3)	Game Theory

Note: Mining Engineering students are permitted to include (MIME 526) Mineral Economics among the Complementary Courses.

6.12.10.8 Minor in Environment

Environmental studies focus on the interactions between humans and their natural and technological environments. Environmental problems are complex, and their satisfactory solutions require the synthesis of social, scientific, and institutional knowledge.

The Minor in Environment is offered and administered by the McGill School of Environment (MSE).

Since the program comprises a total of 18 credits for the Minor, additional credits beyond those needed for the B.Eng. degree are required. Students wishing to complete the Minor should prepare a program and have it approved by both their regular Engineering departmental adviser and the MSE Adviser. For program details, see *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.7: Minor in Environment*.



Note: Engineering students interested in this Minor must submit a completed Course Authorization Form to the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Minor Adviser: Students interested in this Minor should contact Kathy Roulet, MSE Program Adviser (email: kathy.roulet@mcgill.ca; telephone: 514-398-4306).

6.12.10.9 Environmental Engineering Minor

The Environmental Engineering Minor is offered for students in Engineering and in the Department of Bioresource Engineering wishing to pursue studies in this area. Students completing this Minor take an introductory course in environmental engineering, bio-environmental engineering, or environmental aspects of technology, then choose from a wide variety of complementary courses within and outside the Faculty of Engineering on environmental topics. Students may choose to participate in the Barbados Field Study Semester (BFSS) or in the Barbados Interdisciplinary Tropical Studies (BITS) field semester and have the field study courses count toward this Minor.

The Environmental Engineering Minor is administered by the Department of Civil Engineering and Applied Mechanics.

Minor Adviser: Prof. R. Gehr, Macdonald Engineering Building, Room 569E

For more information on the Barbados Field Study Semester, see www.mcgill.ca/bfss.

For more information on the Barbados Interdisciplinary Tropical Studies field semester, see www.mcgill.ca/bits.

For more information on environmental studies in the Faculty of Engineering, see www.mcgill.ca/enveng.

6.12.10.9.1 Bachelor of Engineering (B.Eng.) - Minor Environmental Engineering (21 credits)

Minor Adviser: Prof. R. Gehr, Macdonald Engineering Building, Room 569E

Minor program credit weight: 21-22 credits

The Environmental Engineering Minor is administered by the Department of Civil Engineering and Applied Mechanics and is offered for all students in Engineering (including B.S.E. students) and in the Department of Bioresource Engineering wishing to pursue studies in this area.

A maximum of 12 credits of coursework in the student's major may double-count with the Minor.

To complete the Minor in Environmental Engineering, students must obtain a grade of C or better in all approved courses in the Minor, and satisfy the requirements of both the Minor and their major program.

Note: Not all courses listed are offered every year. Students should see the "Courses" section of this publication to know if a course is offered.

Complementary Courses

21-22 credits

18 credits from Stream A, B, or C below

and

One course (3-4 credits) from the following list:

BREE 327	(3)	Bio-Environmental Engineering
CHEE 230	(3)	Environmental Aspects of Technology
CIVE 225	(4)	Environmental Engineering

Stream A

15 credits* from the Engineering Course List and 3 credits from the Non-Engineering Course List below

*A minimum of 6 credits must be from outside the student's department. A maximum of 6 credits of research project courses may be counted toward this category, provided the project has sufficient environmental engineering content (project requires approval of project supervisor and coordinator of the Minor).

Stream B

15 credits of courses that make up the "Barbados Field Study Semester" below, provided the project for CIVE/AGRI/URBP 519 Sustainable Development Plans has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor);

AND

One course (3-4 credits) chosen from the Engineering Course List below, excluding CHEE 496.

Barbados Field Study Courses

Required Courses

6 credits

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Complementary Courses

9 credits

One of the following cross-listed courses (3 credits):

AGRI 452	(3)	Water Resources in Barbados
CIVE 452	(3)	Water Resources in Barbados

AND

One of the following cross-listed project courses (6 credits):

AGRI 519	(6)	Sustainable Development Plans
CIVE 519	(6)	Sustainable Development Plans
URBP 519	(6)	Sustainable Development Plans

Stream C

9 credits of courses specified from the "Barbados Interdisciplinary Tropical Studies (BITS)" field semester below, provided the project has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor):

AEBI 425	(3)	Tropical Energy and Food

AEBI 427 (6) Barbados Interdisciplinary Project

AND

9 credits chosen from the Engineering Course List below, excluding CHEE 496.

Engineering Course List

Courses offered at the Macdonald campus:

BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 416	(3)	Engineering for Land Development
BREE 518	(3)	Bio-Treatment of Wastes

* Not open to students who have passed CIVE 323.

Courses offered at the Downtown campus:

ARCH 377	(3)	Energy, Environment and Buildings
ARCH 515	(3)	Sustainable Design
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 496	(3)	Environmental Research Project
CHEE 591	(3)	Environmental Bioremediation
CHEE 592	(3)	Industrial Air Pollution Control
CHEE 593	(3)	Industrial Water Pollution Control
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 421	(3)	Municipal Systems
CIVE 428	(3)	Water Resources and Hydraulic Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 550	(3)	Water Resources Management
CIVE 555	(3)	Environmental Data Analysis
CIVE 572	(3)	Computational Hydraulics
CIVE 573	(3)	Hydraulic Structures
CIVE 574	(3)	Fluid Mechanics of Water Pollution
CIVE 577	(3)	River Engineering
CIVE 584	(3)	Groundwater Engineering
MECH 447	(3)	Combustion
MECH 526	(3)	Manufacturing and the Environment
MECH 534	(3)	Air Pollution Engineering
MECH 535	(3)	Turbomachinery and Propulsion
MIME 422	(3)	Mine Ventilation
MIME 512	(3)	Corrosion and Degradation of Materials
MPMC 328	(3)	Environnement et gestion des rejets miniers
URBP 506	(3)	Environmental Policy and Planning

** Not open to students who have passed BREE 217.

Non-Engineering Course List

Courses offered at the Macdonald campus:

LSCI 230+	(3)	Introductory Microbiology
MICR 331+	(3)	Microbial Ecology
MICR 341	(3)	Mechanisms of Pathogenicity
RELG 270	(3)	Religious Ethics and the Environment
SOIL 210++	(3)	Principles of Soil Science
SOIL 331	(3)	Soil Physics
WILD 375	(3)	Issues: Environmental Sciences
WILD 415	(2)	Conservation Law
WOOD 420	(3)	Environmental Issues: Forestry

+ Not open to students who have passed CHEE 370.

++ Not part of the Minor for Agricultural Engineering students.

Courses offered at the Downtown campus:

ANTH 206	(3)	Environment and Culture
BIOL 205	(3)	Biology of Organisms
BIOL 432	(3)	Limnology
CMPL 580	(3)	Environment and the Law
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
EPSC 549	(3)	Hydrogeology
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 404	(3)	Environmental Management 2
MIMM 211	(3)	Introductory Microbiology

6.12.10.10 Minor Programs in Finance, Management, Marketing, and Operations Management

Prerequisite: None

Management Minors Adviser: Students considering one of these Minor programs should consult a Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or an adviser in the Desautels Faculty of Management.

Many engineers begin to assume management functions within a few years of graduation. They can, at this stage, take up the study of economics, behavioural science, and other management subjects. Students wishing to include such studies in their undergraduate program can take suitable courses from Engineering and Management.

Each Minor is comprised of 18 credits of courses available from the core program of the Desautels Faculty of Management (subject to timetable requirements). Some courses from the Management core program have considerable overlap with Engineering courses and thus are not available to Engineering students.

A student embarking on a minor must be prepared to take credits additional to their Engineering program. Students in a B.Eng. or B.S.E. program may be able to count up to 6 credits of Complementary Studies Group B courses (Humanities and Social Sciences, Management Studies, and Law courses) toward both their Engineering major program and a Management minor where applicable. More information about Complementary Studies is given in the B.Eng./B.S.E. program section.

Students must have a CGPA of 3.0 or better to be considered for one of these Minor programs.

Students planning to take any course with statistics as a prerequisite must have completed MGCR 271 (Business Statistics) or an equivalent course approved by the BCom Student Affairs Office.

Detailed information on these Minor programs can be found in *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > [section 10.8.7: Minors for Non-Management Students](#)*.

Further information can also be found at www.mcgill.ca/engineering/degrees/minors.

61210101 Minor Finance (For Non-Management Students) (18 credits)

The Minor Finance consists of 18 credits of Management courses and is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

The Minor has been designed to provide students with an understanding of the key concepts in corporate finance as well as investment banking.

Required Courses (9 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
MGCR 341*	(3)	Finance 1

Complementary Courses (9 credits)

9 credits selected from:

FINE 442	(3)	Capital Markets and Institutions
FINE 443	(3)	Applied Corporate Finance
FINE 445	(3)	Real Estate Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

or other appropriate 300- or 400-level FINE courses with the approval of the Program Adviser.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

61210102 Minor Management (For Non-Management Students) (18 credits)

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Finance 1

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Marketing Management 1
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

61210103 Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

6 credits selected from:

MRKT 357	(3)	Marketing Planning 1

MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

61210104 Minor Operations Management (For Non-Management Students) (18 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and Agricultural & Environmental Sciences.

It provides non-Management students with the opportunity to pursue a career that involves decision making at the operational level. Graduates will be able to find employment in consulting, manufacturing, supply chain, distribution, retail operations, healthcare management and environmental management for profit and non-profit corporations. This Minor has been designed to provide students with an understanding of the key concepts in operations management theory and practice.

Required Courses (6 credits)

MGCR 472	(3)	Operations Management
MGSC 373	(3)	Operations Research 1

Complementary Courses (12 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

9 credits selected from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 431	(3)	Operations Analysis
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

or other appropriate 300- or 400-level MGSC courses with the approval of the Program Adviser.

* 3 credits of Statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

6.12.10.11 Materials Engineering Minor

Students taking the Materials Engineering Minor complete 15 credits of required courses in materials science, materials engineering, electronic properties of materials, metallic and ceramic powders processing, and applications of polymers, and choose three complementary courses in other areas related to materials engineering.

Minor Adviser: Prof. M. Brochu (Minor Coordinator), Wong Building, Room 2640

61210111 Bachelor of Engineering (B.Eng.) - Minor Materials Engineering (24 credits)

Minor Adviser: Prof. M. Brochu (Minor Coordinator), Wong Building, Room 2640

Engineering students may obtain a Materials Engineering Minor by completing 24 credits chosen from the required and complementary courses listed below. By a careful selection of complementary courses, Engineering students may obtain this Minor with a minimum of 15 additional credits.

Required Courses

15 credits

CHEE 380*	(3)	Materials Science
CHEE 484	(3)	Materials Engineering
MIME 260*	(3)	Materials Science and Engineering
MIME 345	(3)	Applications of Polymers
MIME 465	(3)	Metallic and Ceramic Powders Processing
MIME 467	(3)	Electronic Properties of Materials

* Students choose either CHEE 380 or MIME 260.

Complementary Courses

9 credits from the following:

ECSE 545	(3)	Microelectronics Technology
MECH 530	(3)	Mechanics of Composite Materials
MIME 360	(3)	Phase Transformations: Solids
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 569	(3)	Electron Beam Analysis of Materials

6.12.10.12 Mathematics Minor

Students in the Minor in Mathematics for Engineering students complete 18 credits of Mathematics courses (subject code MATH), not including Mathematics courses that are required in their Engineering program (or equivalent courses), and choose 6 credits from other Mathematics-related courses.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) AND an adviser designated by the Department of Mathematics and Statistics, normally beginning in Year 2 (please consult the Department of Mathematics and Statistics for this adviser). Course selection for this Minor must be done in conjunction with the Minor advisers.

61210121 Bachelor of Engineering (B.Eng.) - Minor Mathematics (24 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) AND an adviser designated by the Department of Mathematics and Statistics, normally beginning in the U2 year (please consult the Department of Mathematics and Statistics for this adviser). Selection of courses must be done in conjunction with the Minor advisers.

Note: The Mathematics Minor is open to all students in the Faculty of Engineering (B.Eng., B.S.E., and B.Sc.(Arch.)).

Engineering students must obtain a grade of C or better in courses approved for this Minor.

Course Selection

At least 18 credits must be chosen from the Mathematics and Statistics courses approved for the Mathematics Major or Honours program, or from the following courses:

MATH 249	(3)	Honours Complex Variables
MATH 363	(3)	Discrete Mathematics
MATH 381	(3)	Complex Variables and Transforms

The remaining credits may be chosen from mathematically-allied courses.

The following courses cannot be used toward the Minor:

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 247	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Advanced Calculus
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 270	(3)	Applied Linear Algebra
MATH 271	(3)	Linear Algebra and Partial Differential Equations
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 325	(3)	Honours Ordinary Differential Equations

6.12.10.13 Mining Engineering Minor

Students taking the Mining Engineering Minor complete 12 credits of required courses in mining engineering, including an introduction to the minerals industry, courses in mining science and technology, rock fragmentation and materials handling, and an industrial work term. Students choose 12 credits from mining-related courses within the Departments of Mining and Materials Engineering, Mechanical Engineering, Civil Engineering, and Chemical Engineering.

One of the required courses is a work term for which enrolment may be limited.

Minor Adviser: Prof. Hani Mitri (Minor Coordinator), Frank Dawson Adams Building, Room 121

6.12.10.13.1 Bachelor of Engineering (B.Eng.) - Minor Mining Engineering (24 credits)

Minor Adviser: Prof. Hani Mitri (Minor Coordinator)

Frank Dawson Adams Building, Room 121

Program credit weight: 24 credits

One of the required courses is a work term for which enrolment may be limited.

Required Courses

12 credits

MIME 200	(3)	Introduction to the Minerals Industry
MIME 291	(2)	Industrial Work Period 2
MIME 313	(1)	Mining Science and Technology Seminar
MIME 322	(3)	Rock Fragmentation
MIME 333	(3)	Materials Handling

Complementary Courses

12 credits

List A: Mining Engineering

6-12 credits from the following:

MIME 320	(3)	Extraction of Energy Resources
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 325	(3)	Mineral Industry Economics
MIME 341	(3)	Introduction to Mineral Processing
MIME 419	(3)	Surface Mining
MIME 422	(3)	Mine Ventilation
MIME 426	(3)	Development and Services
MIME 520	(3)	Stability of Rock Slopes
MIME 521	(3)	Stability of Underground Openings
MIME 526	(3)	Mineral Economics

List B: Mechanical Engineering

0-6 credits from the following:

MECH 497	(3)	Value Engineering
MECH 557	(3)	Mechatronic Design
MECH 572	(3)	Introduction to Robotics
MECH 573	(3)	Mechanics of Robotic Systems
MECH 577	(3)	Optimum Design

List C: Civil Engineering

0-6 credits from the following:

CIVE 416	(3)	Geotechnical Engineering
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 462	(3)	Design of Steel Structures
CIVE 463	(3)	Design of Concrete Structures
CIVE 527	(3)	Renovation and Preservation: Infrastructure

List D: Chemical Engineering

0-6 credits from the following:

CHEE 453	(4)	Process Design
CHEE 455	(3)	Process Control
CHEE 484	(3)	Materials Engineering

List E: Electrical Engineering

0-6 credits from the following:

ECSE 404	(3)	Control Systems
ECSE 426	(3)	Microprocessor Systems
ECSE 436	(3)	Signal Processing Hardware
ECSE 451	(3)	EM Transmission and Radiation
ECSE 464	(3)	Power Systems Analysis 1

6.12.10.14 Minor in Musical Science and Technology

The Musical Science and Technology Minor focuses on interdisciplinary topics in science and technology applied to music. The goal of the program is to help prepare students for commercial jobs in the audio technology sector and/or for subsequent graduate research study. The MST Minor is designed to serve students who already have a good background in the sciences and prior experience with math and computer science courses.

Engineering students may apply for admission to the Minor in Musical Science and Technology. Detailed information on this program can be found in *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > Programs of study > Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program > [section 11.8.1.11: Minor Musical Science and Technology \(18 credits\)](#)*. Enrolment in Music Technology programs is highly restricted.

Application forms will be available from the Department of Music Research (research.music@mcgill.ca; Room A726C) in the Schulich School of Music from February 1, and must be completed and returned to the Department of Music Research by June 1. Late applications will not be accepted and no students will be admitted to the Minor in January. Successful applicants will be notified by June 20. Registration will be limited to available lab space.

For further information about this Minor, call 514-398-4540 or email research.music@mcgill.ca. Further information on this program is also available on the Music Technology website at www.music.mcgill.ca/musictech/programmes_and_admissions.

Minor Adviser: Prof. Philippe Depalle (Area Chair for the Music Technology program); email: philippe.depalle@mcgill.ca

6.12.10.15 Physics Minor

Students in Honours Electrical Engineering taking the Physics Minor take 9 credits of required courses in thermal physics and honours quantum physics and choose three other Physics courses (subject code PHYS).

Minor Adviser: Prof. F. Buchinger (Department of Physics)

6.12.10.15.1 Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)

Minor Adviser: Prof. F. Buchinger, Department of Physics

Students in Honours Electrical Engineering may obtain this Minor as part of their B.Eng. degree by completing 18 credits of Physics courses, as listed below.

Required Courses

9 credits

PHYS 253	(3)	Thermal Physics
PHYS 357*	(3)	Honours Quantum Physics 1
PHYS 457*	(3)	Honours Quantum Physics 2

* Students who take PHYS 357 and PHYS 457 can omit PHYS 271 from their normal Electrical Engineering program.

Complementary Courses

9 credits from the following:

PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 362	(3)	Statistical Mechanics
PHYS 432	(3)	Physics of Fluids
PHYS 514	(3)	General Relativity
PHYS 551	(3)	Quantum Theory
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics

6.12.10.16 Software Engineering Minor

This Minor will prepare an engineering student for a career in software engineering. It will provide a foundation in basic computer science, computer programming, and software engineering practice.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22)

61210161 Bachelor of Engineering (B.Eng.) - Minor Software Engineering (24 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

The Software Engineering Minor will prepare engineering students for a career in software engineering. It will provide a foundation in basic computer science, computer programming, and software engineering practice.

This Minor consists of 24 credits (eight courses). Up to four courses (12 credits) may be double-counted for credit toward the B. Eng. degree in Electrical Engineering or Computer Engineering. Students in other programs may double-count up to three courses (9 credits).

Students considering this Minor should consult with the Minor Adviser listed above.

Required Courses

12 credits

COMP 250	(3)	Introduction to Computer Science
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 321	(3)	Introduction to Software Engineering
ECSE 428	(3)	Software Engineering Practice

Complementary Courses

12 credits from the following:

Engineering Courses

6-12 credits from the following:

CHEE 571	(3)	Small Computer Applications: Chemical Engineering
CIVE 460	(3)	Matrix Structural Analysis
CIVE 550	(3)	Water Resources Management
CIVE 572	(3)	Computational Hydraulics
ECSE 322	(3)	Computer Engineering
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 424	(3)	Human-Computer Interaction
ECSE 427	(3)	Operating Systems
ECSE 429	(3)	Software Validation
ECSE 526	(3)	Artificial Intelligence
ECSE 532	(3)	Computer Graphics
MECH 524	(3)	Computer Integrated Manufacturing
MECH 539	(3)	Computational Aerodynamics
MECH 576	(3)	Geometry in Mechanics

Computer Science Courses

0-6 credits from the following (no more than 6 credits will count toward the Minor):

COMP 302	(3)	Programming Languages and Paradigms
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 527	(3)	Logic and Computation

6.12.10.17 Technological Entrepreneurship Minor

This Minor is offered jointly by the Faculties of Engineering and Management. It will appeal to those students who have a concept, process, or product idea in mind and who want to explore the opportunity of commercializing it. It will also be of interest to students who have a general interest in entrepreneurship and intend to pursue a career in small- and medium-sized high-technology/engineering companies.

Students taking the Minor choose 18 credits from courses in technological entrepreneurship (entrepreneurship, marketing management, organization policy, marketing of technology, leadership, and human resources management). Students can also choose to take business plan design and project courses, which give students an opportunity to design a business plan and develop a technology or engineering project.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22)

6.12.10.17.1 Bachelor of Engineering (B.Eng.) - Minor Technological Entrepreneurship (18 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

This Minor is offered jointly by the Faculties of Engineering and Management. It will appeal to those students who have a concept, process, or product idea in mind and who want to explore the opportunity of commercializing it. It will also be of interest to students who have a general interest in entrepreneurship and intend to pursue a career in small- and medium-sized high-technology/engineering companies.

Engineering students (including B.Eng., B.S.E., and B.Sc.(Arch.) students) may obtain the Technological Entrepreneurship Minor by completing six courses (18 credits). B.Eng. and B.S.E. students may double-count up to two courses (6 credits) of Complementary Studies (Group B, Humanities, and Social Sciences courses) toward the Minor.

Students considering this Minor should consult the Minor Adviser listed above.

Complementary Courses

18 credits (six courses) from the following:

BUSA 465	(3)	Technological Entrepreneurship
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
MGCR 352	(3)	Marketing Management 1
MGCR 423	(3)	Organizational Policy
ORGB 321	(3)	Leadership
ORGB 423	(3)	Human Resources Management

7 McGill School of Environment

7.1 About the McGill School of Environment

McGill's Faculties of Agricultural and Environmental Sciences, Arts, Science, and Law have forged a unique approach to the study of environment through the inter-faculty, trans-disciplinary McGill School of Environment (MSE).

The growth of technology, globalizing economies, and rapid increase in population have had dramatic and significant environmental impacts. These changes have been accompanied by an increasing awareness of the relationship between human activity and the environment. Environmental problems range from local and short-term degradation through to the perturbation observed over the entire globe and for many years. The importance of human-environment relations for environmental and social well-being, and the complexity and conflict involved in environmental analysis and decision making, requires a depth and breadth of knowledge. The MSE has developed its programs with the approach of introducing students to a broad range of ideas early in the program to provide a foundation and an openness upon which more specialized, disciplinary knowledge can be built.

7.2 Mission of the School

The mission of the McGill School of Environment is:

- to provide a program that will develop a broad-based environmental literacy in the undergraduate population;
- to develop opportunities for graduate students to pursue studies of the environment at an advanced level to create future leaders and researchers; and

- to generate new ideas, new insights, new technologies, and new approaches to understanding and redressing environmental problems through academic research and outreach that draws on the University's existing strength in research and spans disciplinary boundaries.

Through a range of research and educational initiatives, the MSE aims to aid society in making environmental choices, in the context of diverse environmental world views that will sustain healthy societies within a flourishing biosphere.

Focusing on six themes:

- Biodiversity, Ecosystem Function, and Services
- Climate and Energy
- Disease and Environment
- Environmental Ethics
- Food Security
- Water

7.3 About the School (Undergraduate)

The people and the programs of the McGill School of Environment are described in the following sections.

7.3.1 Location

For advising, contact:

Program Adviser, Ms. Kathy Roulet
Telephone: 514-398-4306
Fax: 514-398-1643
Email: kathy.roulet@mcgill.ca

Website: www.mcgill.ca/mse

Downtown Campus
3534 University Street
Montreal, Quebec H3A 2A7
Telephone: 514-398-2827
Fax: 514-398-1643

Macdonald Campus
Rowles House
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, Quebec H9X 3V9
Telephone: 514-398-7559
Fax: 514-398-7846

7.3.2 Administrative Officers

Administrative Officers

Chandra Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.)

Christopher Manfredi; B.A.(Calg.), M.A., Ph.D.(Claremont)

Daniel Jutras; LL.B.(Montr.), LL.M.(Harv.)

Martin Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.)

Marilyn Scott; B.Sc.(New Br.), Ph.D.(McG.)

Sylvie de Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.)

George McCourt; B.Sc., M.Sc.(Alta.), M.Sc.(McG.)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.)

Kathryn Roulet; B.Sc.(Trent), M.Sc.(Guelph)

Dean, Faculty of Agricultural and Environmental Sciences

Dean, Faculty of Arts

Dean, Faculty of Law

Dean, Faculty of Science

Director

Associate Director, Graduate Affairs

Associate Director, Undergraduate Affairs

Associate Director, Research

Program Adviser

7.3.3 Academic Staff

Professors

Peter G. Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (*joint appt. with Geography and Natural Resource Sciences*)

Colin Chapman; B.Sc., M.A., Ph.D.(Alta.) (*joint appt. with Anthropology*)

Associate Professors

Madhav Badami; B.Tech., M.Sc.(IIT), M.E.Des.(Calg.), Ph.D.(Br. Col.) (*joint appt. with School of Urban Planning*)

Elena Bennett; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.) (*joint appt. with Natural Resource Sciences*)

Sylvie de Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.) (*joint appt. with Plant Science*)

Jaye Ellis; B.A.(Calg.), LL.B., B.C.L.(McG.), LL.M.(Br. Col.) (*joint appt. with Law*)

Frédéric Fabry; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Atmospheric and Oceanic Sciences*)

Brian Leung; B.Sc.(Br. Col.), Ph.D.(Car.) (*joint appt. with Biology*)

Gregory Mikkelsen; B.A.(Trinity), M.S., Ph.D.(Chic.) (*joint appt. with Philosophy*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with Redpath Museum*)

Raja Sengupta; B.Sc.(Bom.), M.Sc.(IIT), Ph.D.(S. Illinois) (*joint appt. with Geography*)

Renée Sieber; B.Sc.(Mich. St.), M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with Geography*)

Ismael Vaccaro; B.A.(Barcelona), D.E.A.(Paris), M.A., Ph.D.(Wash.) (*joint appt. with Anthropology*)

Assistant Professors

Christopher Barrington-Leigh; B.Sc.(MIT), Ph.D.(Stan.), Ph.D.(Br.Col.) (*joint appt. with Institute for Health and Social Policy*)

Jeffrey Cardille; B.Sc.(Carn.Mell), M.Sc.(Georgia Tech.), M.Sc., Ph.D.(Wisc.) (*joint appt. with Natural Resource Sciences*)

Iwao Hirose; Ph.D.(St. And.) (*joint appt. with Philosophy*)

Nicolas Kosoy; B.Sc.(Universidad Simon Bolivar Venezuela), M.Sc.(Kent U at Canterbury), Ph.D.(Universidad Autonoma de Barcelona) (*joint appt. with Natural Resource Sciences*)

Jeanine Rhemtulla; B.Sc.(McG.), M.Sc.(Alta.), Ph.D.(Wisc.)

Faculty Lecturers

George McCourt; B.Sc., M.Sc.(Alta.), M.Sc.(McG.)

Kathryn Roulet; B.Sc.(Trent), M.Sc.(Guelph)

Associate Members

Agricultural Economics: Paul Thomassin

Animal Science: Sarah Kimmins

Anthropology: Andre Costopoulos, John Galaty

Atmospheric and Oceanic Sciences: Parisa Ariya

Biology: Lauren Chapman, Andrew Gonzalez, Irene Gregory-Eaves, Martin Lechowicz, Catherine Potvin

Bioresource Engineering: Jan Adamowski, Grant Clark, Mark Lefsrud, Chandra Madramootoo

Chemical Engineering: Nathalie Tufenkji, Viviane Yargeau

Civil Engineering and Applied Mechanics: Susan Gaskin, Marianne Hatzopoulou, Van-Thanh-Van Nguyen, Jim Nicell

Earth and Planetary Sciences: Jeanne Paquette

Economics: Robert Cairns, Chris Green, Tom Naylor

Electrical and Computer Engineering: Geza Joos

Epidemiology and Biostatistics: Mark Goldberg

Geography: Gail Chmura, Oliver Coomes, Thom Meredith, Tim Moore, Wayne H. Pollard, Navin Ramankutty, Nigel Roulet

History and Classical Studies: Daviken Studnicki-Gizbert

Associate Members

Languages, Literatures, and Cultures: Stephanie Posthumus

Law, Faculty of: Armand De Mestral, Jane Glenn, Richard Gold, Richard Janda, Hoi Kong

Management, Desautels Faculty of: Dror Etzion, Steve Maguire, Vedat Verter

Natural Resource Sciences: Benoit Côté, Christopher Buddle, Jim W. Fyles, William Hendershot, Gordon Hickey, Chris Solomon, Ian Strachan, Joann Whalen, Terry Wheeler

Parasitology, Institute of: Marilyn Scott

Pathology: Bruce Case

Philosophy: Philip Buckley

Plant Science: Caroline Begg, Pierre Dutilleul, Don Smith, Marcia Waterway

Political Science: Philip Oxhorn

Redpath Museum: David M. Green

Urban Planning, School of: Nik Luka

Adjunct Professors

Thomas Dietz; B.G.S.(Kent State Univ.), Ph.D.(Calif.-Davis)

Holly Dressel; B.A.(Ind.), M.A.(S. Fraser)

Nicholas Ogden; B.V.Sc.(Liv.), D.Phil.(Oxf.)

Katia Opalka; B.A., LL.B./B.C.L.(McG.)

7.4 Admission, Registration, and Regulations

Information concerning admission to the McGill School of Environment and the regulations concerning the Environment programs is provided in these sections:

Admission, Registration, and Regulations

[section 7.4.1: Admission](#)

[section 7.4.2: Degree Requirements](#)

[section 7.4.3: Advising in the MSE](#)

[section 7.4.4: Important Information about Program Selection](#)

[section 7.4.5: Course Numbering System at McGill](#)

[section 7.4.6: Examination Regulations](#)

[section 7.4.7: Courses Outside the Student's Faculty](#)

7.4.1 Admission

You may be admitted to a B.A., B.A.&Sc., B.Sc.(Ag.Env.Sc.), or B.Sc. program offered by the MSE on the University's two campuses: the Macdonald campus (B.Sc.(Ag.Env.Sc.) program) and the Downtown campus (B.A., B.A.&Sc., and B.Sc. programs). You register as a student within your faculty of admission and are governed by all rules and regulations of your faculty.

If you have already completed a Bachelor or an equivalent degree, you may be admitted to the Diploma in Environment through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or the Faculty of Science. You register as a student within your faculty of admission and are governed by all rules and regulations of your faculty relative to the Diploma.

Please see the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

7.4.2 Degree Requirements

To be eligible for a B.A. degree, you must fulfil all the faculty and program requirements as indicated in *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Arts* > *Undergraduate* > [section 3.6: Faculty of Arts Degree Requirements](#).

To be eligible for a B.A. & Sc. degree, you must fulfil all the faculty and program requirements as indicated in *Programs, Courses and University Regulations* > *Faculties & Schools* > *Bachelor of Arts and Science* > *Undergraduate* > [section 4.5: Degree Requirements](#).

To be eligible for a B.Sc.(Ag.Env.Sc.) degree, you must fulfil all the faculty and program requirements as indicated in *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Agricultural and Environmental Sciences* > *Undergraduate* > [section 2.4.5.14: Degree Requirements](#).

To be eligible for a B.Sc. degree, you must fulfil all the faculty and program requirements as indicated in *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.6: Faculty Degree Requirements](#).

To be eligible for the Diploma in Environment, you must fulfil all program requirements as specified in [section 7.14: Diploma in Environment](#).

To be eligible for an Honours degree, you must fulfil all the faculty and program requirements as indicated in the *Honours and First Class Honours* section under your home faculty. In addition, you must also fulfil the honours program requirements outlined in [section 7.12: Honours Program in Environment](#).

7.4.3 Advising in the MSE

Each domain in the MSE has its own mentor who is available to answer your questions and offer you guidance about working and learning within the particular field of the domain. However, if you have questions about program requirements or rules, transfer credits, study abroad programs, course substitutions, or any forms that need to be signed, you should contact the MSE Program Adviser, Kathy Roulet, at kathy.roulet@mcgill.ca.

7.4.4 Important Information about Program Selection

The MSE uses students' program selections to identify which students are in the School's major programs (and, by extension, which students are in the McGill Environment Students' Society).

While in U1, if you are unsure of the domain that you want to pursue, you may register in the Major or Faculty program in Environment without picking a domain. However, you must pick a domain by your U2 year.



Note: You must select a domain in order to graduate; you cannot graduate without choosing a domain.

(This section does not apply to students in the B.A.&Sc., Minor or Diploma programs.)

7.4.5 Course Numbering System at McGill

The first four characters of a McGill course number refer to the unit offering the course. For example, MSE courses begin with the Subject Code ENVR.

The three numbers following the Subject Code refer to the course itself, with 200-level courses usually taken by U1 students, 300-level by U2 students, and 400-level by U3 students. As a senior undergraduate student, you can also take some 500-level courses, but you should limit yourself to no more than one per term. For more information, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > *Registration* > [section 1.3.2: Course Information and Regulations](#).

7.4.6 Examination Regulations

Regulations concerning the method of evaluation of any course (including those governing supplemental examinations) are those of the faculty that offers the course. You should note that supplemental exams are available for courses taught in the Faculties of Arts, of Science, and of Education, but **not** for courses taught in the **Faculties of Agricultural and Environmental Sciences, Engineering, or Management**.



Note: All ENVR courses, regardless of where they are taught, are offered only by the Faculty of Science.

For more information on the University regulations and procedures, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.6: Examinations: General Information](#).

7.4.7 Courses Outside the Student's Faculty

Students in the School's B.A., B.A. & Sc., B.Sc., and B.Sc.(Ag.Env.Sc.) programs may take courses outside their faculty according to the regulations of their faculty of admission.

These regulations are **not identical**:

- Arts students, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Arts* > *Undergraduate* > [section 3.6.5.3: Courses Outside the Faculties of Arts and of Science](#).
- Arts and Science students, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Bachelor of Arts and Science Undergraduate* > [section 4.5.6.2: Courses Outside the Faculties of Arts and of Science](#).
- Science students, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Science* > *Undergraduate* > [section 13.6.5.2: Courses Outside the Faculties of Arts and Science](#).
- Agricultural and Environmental Sciences students, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Agricultural and Environmental Sciences* > *Undergraduate* > [section 2.4.5.1: Minimum Credit Requirement](#).

- Faculty of Science students in particular should be aware that some courses are restricted and cannot be taken for credit. See the Science Office for Undergraduate Student Advising (SOUA) website at www.mcgill.ca/science/sousa. Check under *Bachelor of Science degree > General course requirements > Restricted courses outside the Faculty of Science > Policy concerning courses outside Faculty of Science*.
- Students in the Diploma of Environment follow the program as specified; see [section 7.14: Diploma in Environment](#).

7.5 Overview of Programs Offered

The McGill School of Environment has developed eight programs, which are offered on the Downtown and Macdonald campuses:

1. A **Minor in Environment** is open to all undergraduate students. For more information, see [section 7.7: Minor in Environment](#).
2. A **Faculty Program in Environment leading to a B.A.** is open to students meeting the entrance requirements of the Faculty of Arts. For more information, see [section 7.8: B.A. Faculty Program in Environment](#).
3. An **Interfaculty Program in Environment leading to a B.A. & Sc.** is open to students meeting the entrance requirements for the Bachelor of Arts and Science. For more information, see [section 7.9: Bachelor of Arts and Science \(B.A. & Sc.\) – Interfaculty Program in Environment](#).
4. An **Interfaculty Program in Sustainability, Science and Society** leading to a B.A. & Sc. is offered by the McGill School of Environment in partnership with the Department of Geography. It is open to students meeting the entrance requirements for the Bachelor of Arts and Science. For more information, see *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > section 4.10.45.3: Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)*.
5. A **Major in Environment leading to a B.Sc.(Ag.Env.Sc.)** is open to students meeting the entrance requirements of the Faculty of Agricultural and Environmental Sciences. For more information, see [section 7.10: Major in Environment – B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#)
6. A **Major in Environment leading to a B.Sc.** is open to students meeting the entrance requirements of the Faculty of Science. For more information, see [section 7.10: Major in Environment – B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#)
7. An **Honours Program in Environment** is open to senior Environment students in the B.A., B.A. & Sc., B.Sc.(Ag.Env.Sc.) and B.Sc. degrees. For more information, see [section 7.12: Honours Program in Environment](#).
8. A **Diploma in Environment** is available only to students who have already completed a Bachelor or an equivalent degree, and who want to return to university for further undergraduate study. The Diploma is offered by the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, and the Faculty of Science. For more information, see [section 7.14: Diploma in Environment](#).

These programs strive to offer the flexibility necessary to deal with the environment through a set of core courses that provide the general knowledge base of the program combined with a progressive series of courses in a trans-disciplinary area of environmental specialization, referred to as a domain.

The programs are designed to prepare students for further study in environment or discipline-based graduate programs, and for employment in industry, government, and education.

7.6 Suggested Courses for Freshmen Students

The MSE does not recommend that students in their Freshman (U0) year take the ENVR Core courses. Students in their U1 to U3 years are welcome to take selected ENVR courses, even if they are not in the Environment programs. For Freshman year course selections, students should refer to the website of their respective faculty.

Students in the B.Sc. degree, see www.mcgill.ca/science/student/newstudents/u0/bscfreshman/specific.

Students in the B.Sc.(Ag.Env.Sc.) degree, see www.mcgill.ca/macdonald/prospective/freshmanyar/courses.

Students in the B.A. & Sc. degree, see www.mcgill.ca/science/student/newstudents/u0/bscfreshman/requirements.

Students in the B.A. degree, see www.mcgill.ca/oasis/ba/freshman/selection.

7.7 Minor in Environment

The Minor in Environment is intended to complement an expertise obtained through a major, major concentration, or Faculty program offered by an academic unit **other than** the MSE. Students taking the Minor in Environment are exposed to different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie environmental problems.

Students, after consulting with their adviser in their major program or concentration and the MSE Program Adviser, can declare their intention to do a Minor in Environment.

To obtain a Minor in Environment, students must:

- register for the Minor online, using Minerva;
- submit their program of courses already taken and to be taken for the Minor in Environment to the MSE Program Adviser for approval (**only courses at the 200 level and above will be approved**);
- pass all courses counted toward the Minor with a **grade of C or higher**;

- complete 18 credits from the courses listed under [section 7.7.1: Bachelor of Arts \(B.A.\) - Minor Concentration Environment \(18 credits\)](#) or [section 7.7.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Minor Environment \(18 credits\)](#) in this publication and which are not otherwise counted towards the student's major program or concentration or a second minor program; and
- ensure that all 18 credits are taken outside the discipline or field of the student's major program or concentration.

7.7.1 Bachelor of Arts (B.A.) - Minor Concentration Environment (18 credits)

This 18-credit Minor Concentration Environment is intended for Arts students in the multi-track system and Law students.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. Only courses at the 200 level and above will be approved.

For more information, contact:

Ms. Kathy Roulet, MSE Program Adviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses are selected as follows:

12 credits of MSE core courses:

Location Note: Core courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in natural sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included in the Minor with the permission of the Program Adviser.

Location Note:

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations

POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

** Note: you may take MIMM 211 or LSCI 230, but not both; you may take ENVB 315 or BIOL 432, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432**	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1

CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population & Community Ecology
ENVB 315**	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230**	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211**	(3)	Introductory Microbiology
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi

PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

7.7.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Minor Environment (18 credits)

This 18-credit Minor is intended for Faculty of Agricultural and Environmental Science students and Faculty of Science students, but is open to students from other faculties as well, except Arts and Law.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. Only courses at the 200 level and above will be approved.

For information about the Minor in Environment, contact:

Ms. Kathy Roulet, MSE Program Adviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses are selected as follows:

12 credits of MSE core courses:

Location Note: MSE core courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course list may be included in the Minor with the permission of the MSE Program Adviser.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture

AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1

POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

* Note: you may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take BREE 217 or GEOG 322, but not both; you may take ENVB 430 or GEOG 201, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes

BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305*	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology

NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

7.8 B.A. Faculty Program in Environment

The B.A. Faculty Program has two components: Core and Domain. Students follow three steps in their degree program.

- 1. Core:** The Core consists of four introductory courses and one intermediate-level course where students are exposed to the different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie most environmental problems. Through the core program, students go beyond the confines of their individual views of environment.
- 2. Domain:** Domains provide a trans-disciplinary study of a particular theme or component of the environment. You can choose to follow one of three domains within the B.A. Faculty Program in Environment:
 - Ecological Determinants of Health in Society
 - Economics and the Earth's Environment
 - Environment and Development
- 3. Senior Core and Research:** In the two senior courses of the core, students will apply the general and specialized knowledge that they have gained in the program to the analysis of some specific, contemporary environmental problems.

To obtain a B.A. Faculty Program in Environment, students must:

- register in a domain online, using Minerva;
- satisfy the co- and/or prerequisites for the program (Calculus and a Basic Science course);
- pass all courses counted towards the Faculty Program with **a grade of C or higher**;
- confirm that their course selection satisfies the required components of the MSE core and their chosen domain, and that the complementary courses are approved courses in their chosen domain; and
- fulfil all Faculty requirements as specified for the B.A. in the Arts, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > [section 3.6: Faculty of Arts Degree Requirements](#)*, which include meeting the minimum credit requirement as specified in their letter of admission.

7.8.1 Ecological Determinants of Health in Society Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Marilyn Scott Telephone: 514-398-7996 Email: marilyn.scott@mcgill.ca

7.8.1.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Ecological Determinants of Health in Society (54 credits)

An understanding of the interface between human health and environment depends not only on an appreciation of the biological and ecological determinants of health, but equally on an appreciation of the role of social sciences in the design, implementation, and monitoring of interventions. Demographic patterns and urbanization, economic forces, ethics, indigenous knowledge and culture, and an understanding of how social change can be effected are all critical if we are to be successful in our efforts to assure health of individuals and societies in the future. Recognizing the key role that nutritional status plays in maintaining a healthy body, and the increasing importance of infection as a health risk linked intimately with the environment, this domain prepares students to contribute to the solution of problems of nutrition and infection by tying the relevant natural sciences to the social sciences.

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: http://www.mcgill.ca/study/university_regulations_and_resources/undergraduate/gi_courses_taken_under_the_satisfactory_unsatisfactory_option for details.

Calculus

3 credits of calculus from the following, or equivalent (e.g., CEGEP objective 00UN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objective 00UK):

AEBI 120	(3)	General Biology
BIOL 111	(3)	Principles: Organismal Biology

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Complementary Courses (33 credits)

33 credits of complementary courses are chosen as follows:

18 credits of Fundamentals, maximum 3 credits from any one category

9 credits from List A

6 credits from List B

Fundamentals:

18 credits of Fundamentals (3 credits from each category):

Health and Environment

GEOG 221	(3)	Environment and Health
NRSC 221	(3)	Environment and Health

Health and Infection

GEOG 403	(3)	Global Health and Environmental Change
GEOG 493	(3)	Health and Environment in Africa
PARA 410	(3)	Environment and Infection

Health and Pollution

ANTH 227	(3)	Medical Anthropology
NRSC 333	(3)	Pollution and Bioremediation

Economics

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications

Nutrition

EDKP 292	(3)	Nutrition and Wellness
NUTR 200	(3)	Contemporary Nutrition
NUTR 207	(3)	Nutrition and Health

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
SOCI 350	(3)	Statistics in Social Research

List A:

9 credits from List A (maximum 3 credits from any one category):

Health and Society

ANTH 320	(3)	Social Evolution
GEOG 303	(3)	Health Geography
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 234	(3)	Population and Society

SOCI 309	(3)	Health and Illness
SOCI 515	(3)	Medicine and Society

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

Agriculture

AEBI 425	(3)	Tropical Energy and Food
AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 550	(3)	Sustained Tropical Agriculture

Decision Making

AGEC 242	(3)	Management Theories and Practices
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 440	(3)	Health Economics
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
URBP 507	(3)	Planning and Infrastructure

Biology Fundamentals:

* You may take BIOL 308 or ENVB 305, but not both.

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
BIOL 200	(3)	Molecular Biology
BIOL 205	(3)	Biology of Organisms
BIOL 308*	(3)	Ecological Dynamics
ENVB 305*	(3)	Population & Community Ecology
LSCI 211	(3)	Biochemistry 1

Development and Ecology

ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
GEOG 300	(3)	Human Ecology in Geography
GEOG 310	(3)	Development and Livelihoods
SOCI 254	(3)	Development and Underdevelopment

SOCI 365 (3) Health and Development

List B:

6 credits from List B (maximum 3 credits from any one category):

Advanced Ecology

* You may take BIOL 465 or WILD 421, but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
BIOL 451	(3)	Research in Ecology and Development in Africa
BIOL 465*	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
NRSC 451	(3)	Research in Ecology and Development In Africa
WILD 421*	(3)	Wildlife Conservation

Pest Management

BIOL 350	(3)	Insect Biology and Control
ENTO 350	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects

Techniques and Management

* You may take ENVB 430 or GEOG 201, but not both.

AEBI 423	(3)	Sustainable Land Use
CHEE 230	(3)	Environmental Aspects of Technology
ENVB 430*	(3)	GIS for Natural Resource Management
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PARA 515	(3)	Water, Health and Sanitation

Social Change

GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 249	(3)	Health and the Healer in Western History
SOCI 307	(3)	Sociology of Globalization
URBP 520	(3)	Globalization: Planning and Change

Immunology and Infectious Disease

MIMM 314	(3)	Intermediate Immunology
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
PARA 438	(3)	Immunology

PATH 300	(3)	Human Disease
WILD 424	(3)	Parasitology

Populations and Place

ANTH 451	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
EDKP 204	(3)	Health Education
GEOG 451	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
HIST 335	(3)	Science and Medicine in Canada
HIST 510	(3)	Environmental History of Latin America (Field)
PSYC 533	(3)	International Health Psychology
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 550	(3)	Developing Societies

7.8.2 Economics and the Earth's Environment Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Jeanne Paquette Telephone: 514-398-4402 Email: jeanne.paquette@mcgill.ca

7.8.2.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Economics and the Earth's Environment (54 credits)

Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. This knowledge is not always enough, as economics often plays a controlling role in how we use and abuse our environment.

This domain educates students in the fundamentals of economics and Earth sciences. The fundamentals of economics are provided, as is their application to the effects of economic choices on Earth's environment. Examples of these applications include the economic effects of public policy toward resource industries and methods of waste disposal, and the potential effects of global warming on the global economy. Students also learn of minerals, rocks, soils, and waters that define much of Earth's environment and how these materials interact with each other and with the atmosphere. Courses in specific subdisciplines of Earth sciences combined with courses presenting a global vision of how the Earth and its environment operate provide the student with the necessary knowledge of geologic processes. Examples of this knowledge include the effects of mineral and energy extraction on the environment and how industrial waste interacts with solids and liquids in the environment. The Earth science and economics studies merge in the final year when the students apply what they have learned in the domain to current environmental issues.

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: http://www.mcgill.ca/study/university_regulations_and_resources/undergraduate/gi_courses_taken_under_the_satisfactory_unsatisfactory_option for details.

Calculus

3 credits of Calculus, one of the following, or equivalent (e.g., CEGEP objective OOUN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

Basic Science

3 credits of Basic Science, one of the following, or their equivalents (e.g., CEGEP objectives Biology OOUK, Chemistry OOUL, Physics OOUR):

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1
PHYS 101	(4)	Introductory Physics - Mechanics

Other Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course – Senior Research Project (3 credits)

Only 3 credits will be applied to the program: extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (15 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Domain: Complementary Courses (18 credits)

18 credits are selected from various categories as follows:

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Economics

6 credits from:

AGEC 333	(3)	Resource Economics
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 416	(3)	Topics in Economic Development 2
ECON 525	(3)	Project Analysis

Advanced Courses

9 credits from:

* Note: You can take BREE 217 or GEOG 322 but not both; you can take ENVB 305 or BIOL 308 but not both.

AEBI 423	(3)	Sustainable Land Use
AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
ANTH 339	(3)	Ecological Anthropology
ANTH 451	(3)	Research in Society and Development in Africa
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 451	(3)	Research in Ecology and Development in Africa
BREE 217*	(3)	Hydrology and Water Resources
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ENVB 305*	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
EPSC 355	(3)	Sedimentary Geology
EPSC 549	(3)	Hydrogeology
GEOG 302	(3)	Environmental Management 1
GEOG 322*	(3)	Environmental Hydrology
GEOG 404	(3)	Environmental Management 2
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
HIST 510	(3)	Environmental History of Latin America (Field)
NRSC 451	(3)	Research in Ecology and Development In Africa
SOIL 510	(3)	Environmental Soil Chemistry

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

7.8.3 Environment and Development Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Prof. Gregory Mikkelson Telephone: 514-398-4583 Email: gregory.mikkelson@mcgill.ca

7.8.3.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Environment and Development (54 credits)

The quest for sustainable paths to economic development requires scholars and practitioners to transcend the boundaries of traditional disciplines. This domain offers students sufficient depth and breadth of study to acquire a strong grasp of current theories, concepts, and approaches to environment and development. It prepares them for graduate study in interdisciplinary programs (e.g., development studies or environmental studies) as well as in integrative social sciences (e.g., anthropology, geography, etc.).

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: http://www.mcgill.ca/study/university_regulations_and_resources/undergraduate/gi_courses_taken_under_the_satisfactory_unsatisfactory_option for details.

Calculus

3 credits of calculus from the following, or equivalent (e.g., CEGEP objective OOUN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objectives: Biology OOUK, Chemistry OOU, Physics OOUR):

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1
PHYS 101	(4)	Introductory Physics - Mechanics

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment

ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (12 credits)

ANTH 339	(3)	Ecological Anthropology
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 302	(3)	Environmental Management 1

Domain: Complementary Courses (21 credits)

21 credits of complementary courses are chosen from various categories as follows:

Microeconomics

One of:

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications

Statistics

3 credits, one of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Advanced Development Courses

6 credits from:

AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
GEOG 310	(3)	Development and Livelihoods
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia

GEOG 410	(3)	Geography of Underdevelopment: Current Problems
URBP 520	(3)	Globalization: Planning and Change

Natural Sciences

3 credits from:

* Note: You may take BIOL 308 or ENVB 305 but not both; you may take BIOL 465 or WILD 421 but not both; you may take ENVB 210 or GEOG 305 but not both; you may take BREE 217 or GEOG 322 but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 308*	(3)	Ecological Dynamics
BIOL 451	(3)	Research in Ecology and Development in Africa
BIOL 465*	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217*	(3)	Hydrology and Water Resources
ENVB 210*	(3)	The Biophysical Environment
ENVB 305	(3)	Population & Community Ecology
GEOG 305*	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
NRSC 451	(3)	Research in Ecology and Development In Africa
NUTR 403	(3)	Nutrition in Society
NUTR 501	(3)	Nutrition in Developing Countries
PARA 410	(3)	Environment and Infection
WILD 421*	(3)	Wildlife Conservation

Social Sciences

6 credits from:

* Note: You may take GEOG 221 or NRSC 221, but not both.

AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AGEC 333	(3)	Resource Economics
AGRI 452	(3)	Water Resources in Barbados
ANTH 451	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 311	(3)	Economic Geography
GEOG 331	(3)	Urban Social Geography
GEOG 404	(3)	Environmental Management 2
GEOG 406	(3)	Human Dimensions of Climate Change

GEOG 416	(3)	Africa South of the Sahara
GEOG 451	(3)	Research in Society and Development in Africa
GEOG 496	(3)	Geographical Excursion
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 510	(3)	Environmental History of Latin America (Field)
MGPO 440	(3)	Strategies for Sustainability
NRSC 221*	(3)	Environment and Health
POLI 445	(3)	International Political Economy: Monetary Relations
URBP 507	(3)	Planning and Infrastructure

7.9 Bachelor of Arts and Science (B.A. & Sc.) – Interfaculty Program in Environment

The Interfaculty Program in Environment is open only to students in the B.A. & Sc. degree.

Adviser

Ms. Kathy Roulet, MSE Program Adviser
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

To obtain a B.A. & Sc. Interfaculty Program in Environment, students must:

- register in the program online, using Minerva;
- satisfy the co- / prerequisites for the program;
- pass all courses counted toward the Interfaculty Program with a grade of C or higher;
- confirm that their course selection satisfies the required components of the program;
- fulfil all requirements specified for the B.A. & Sc. in *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > [section 4.5: Degree Requirements](#)*, which include meeting the minimum credit requirement as specified in their letter of admission.

7.9.1 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Environment (54 credits)

The growth of technology, globalization of economies, and rapid increases in population and per capita consumption have all had dramatic environmental impacts. The Interfaculty Program Environment for the Bachelor of Arts and Science is designed to provide students with a broad "Liberal Arts/Science" training. In combination with careful mentoring, this program offers a great degree of flexibility, allowing students to develop the skills and knowledge base required to face the myriad of environmental problems that currently need to be addressed.

Program Requirements

1. Students are required to take a maximum of 21 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses.
2. Students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their interfaculty program and their minor or minor concentration. ENVR courses are considered courses in both Arts and Science, and so the credits are split between the two faculties for the purpose of this regulation.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught on both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

3 credits - Senior Research Project

3 credits - Statistics

30 credits - chosen from amongst 12 Areas of focus

Senior Research Project

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Statistics:

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Areas:

30 credits from at least three of the following Areas. At least 6 credits must be at the 400 level or higher, selected either from these lists or in consultation with the Program Adviser.

Area 1: Population, Community, and Ecosystem Ecology

* Note: You may take BIOL 540 or ENVR 540, but not both; you may take BIOL 308 or ENVB 305, but not both.

BIOL 308*	(3)	Ecological Dynamics
BIOL 432	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 540*	(3)	Ecology of Species Invasions
ENVB 305*	(3)	Population & Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 350	(3)	Ecological Biogeography
PLNT 460	(3)	Plant Ecology

Area 2: Biodiversity and Conservation

BIOL 305	(3)	Animal Diversity
BIOL 355	(3)	Trees: Ecology & Evolution
BIOL 427	(3)	Herpetology
BIOL 465	(3)	Conservation Biology
ENTO 440	(3)	Insect Diversity
MICR 331	(3)	Microbial Ecology
PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

Area 3: Field Studies in Ecology and Conservation

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

Area 4: Hydrology and Water Resources

* Note: You may take only one of: GEOG 322, BREE 217, or CIVE 323.

BREE 217*	(3)	Hydrology and Water Resources
CIVE 323*	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 540	(3)	Socio-Cultural Issues in Water

Area 5: Human Health

* Note: You may take ANSC 330 or NUTR 307, but not both.

ANSC 330*	(3)	Fundamentals of Nutrition
NUTR 307*	(3)	Human Nutrition
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 303	(3)	Principles of Toxicology

Area 6: Earth and Soil Sciences

ATOC 215	(3)	Oceans, Weather and Climate
EPSC 201	(3)	Understanding Planet Earth
GEOG 272	(3)	Earth's Changing Surface

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
SOIL 326	(3)	Soils in a Changing Environment

Area 7: Economics

* Note: You may take AGECE 200 or ECON 208, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 333	(3)	Resource Economics
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
GEOG 216	(3)	Geography of the World Economy

Area 8: Development and Underdevelopment

ANTH 212	(3)	Anthropology of Development
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
POLI 227	(3)	Developing Areas/Introduction
POLI 445	(3)	International Political Economy: Monetary Relations

Area 9: Cultures and People

ANTH 206	(3)	Environment and Culture
ANTH 339	(3)	Ecological Anthropology
GEOG 210	(3)	Global Places and Peoples

Area 10: Human Ecology and Health

ANTH 227	(3)	Medical Anthropology
GEOG 300	(3)	Human Ecology in Geography
GEOG 303	(3)	Health Geography
PHIL 343	(3)	Biomedical Ethics
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness

Area 11: Spirituality, Philosophy, and Thought

EDER 461	(3)	Society and Change
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 237	(3)	Contemporary Moral Issues
PHIL 341	(3)	Philosophy of Science 1
PHIL 348	(3)	Philosophy of Law 1

RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights

Area 12: Environmental Management

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGRI 210	(3)	Agro-Ecological History
AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
ENVB 437	(3)	Assessing Environmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
NRSC 333	(3)	Pollution and Bioremediation
SOIL 335	(3)	Soil Ecology and Management
WILD 401	(4)	Fisheries and Wildlife Management
WILD 415*	(2)	Conservation Law
WOOD 441	(3)	Integrated Forest Management

7.9.2 Bachelor of Arts and Science (B.A. & Sc.) – Interfaculty Program in Sustainability, Science and Society

The Interfaculty Program in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

Adviser

Adviser: Prof. Navin Ramankutty
 Telephone: 514-398-8428
 Email: navin.ramankutty@mcgill.ca

For further information about this program, see *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > Academic Programs > Sustainability, Science and Society > [section 4.10.45.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 credits\)](#)*.

7.10 Major in Environment – B.Sc.(Ag.Env.Sc.) and B.Sc.

Students in the Faculty of Agricultural and Environmental Sciences B.Sc.(Ag.Env.Sc.) program and students in the Faculty of Science B.Sc. program can register in the Major in Environment.

The Major has two components: core and domain. Students follow three steps in their degree program.

- 1. Core:** The core consists of four introductory courses and one intermediate-level course where students are exposed to the different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie most environmental problems. Through the core program, students go beyond the confines of their individual views of environment.
- 2. Domain:** Domains provide a trans-disciplinary study of a particular theme or component of the environment. B.Sc.(Ag.Env.Sc.) and B.Sc. students can choose to follow one of the following domains:
 - Biodiversity and Conservation
 - Ecological Determinants of Health (Population and Cellular stream options)
 - Environmetrics
 - Food Production and Environment
 - Land Surface Processes and Environmental Change
 - Renewable Resource Management
 - Water Environments and Ecosystems (Biological and Physical stream options)

B.Sc. students in the Faculty of Science can also choose from the following two domains:

- Atmospheric Environment and Air Quality
- Earth Sciences and Economics

- 3. Senior Core and Research:** In the two senior courses of the core, students will apply the general and specialized knowledge that they have gained in the program to the analysis of some specific, contemporary environmental problems.

To obtain a Major in Environment, students must:

- register in a domain online using Minerva;
- pass all courses counted toward the Major with **a grade of C or higher**;
- confirm that their course selection satisfies the required components of the MSE core and their chosen domain, and that the complementary courses are approved courses in their chosen domain; and
- fulfil all faculty requirements as specified by the faculty in which they are registered: for the B.Sc.(Ag.Env.Sc.), refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Agricultural and Environmental Sciences > Undergraduate > section 2.4.5: Faculty Information and Regulations*; for the B.Sc., see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > section 13.6: Faculty Degree Requirements*. This includes meeting the minimum credit requirement as specified in their letter of admission.

7.10.1 Biodiversity and Conservation Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Graham Bell Telephone: 514-398-6485 Email: graham.bell@mcgill.ca

7.10.1.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Biodiversity and Conservation (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

This domain links the academic study of biological diversity with the applied field of conservation biology. The study of biological diversity, or "biodiversity," lies at the intersection of evolution with ecology and genetics, combining the subdisciplines of evolutionary ecology, evolutionary genetics, and ecological genetics. It has two main branches: the creation of diversity and the maintenance of diversity. Both processes are governed by a general mechanism of selection acting over different scales of space and time. This gives rise to a distinctive set of principles and generalizations that regulate rates of diversification and levels of diversity, as well as the abundance or rarity of different species. Conservation biology constitutes the application of these principles in the relevant social and economic context to the management of natural systems, with the object of preventing the extinction of rare species and maintaining the diversity of communities. As the impact of industrialization and population growth on natural systems has become more severe, conservation has emerged as an important area of practical endeavour.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth

ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - basic courses in the Biological Principles of Diversity, Systematics, and Conservation

3 credits - Ecology

3 credits - Statistics

9 credits - Interface between Science, Policy, and Management

3 credits - Field Courses

6 credits - General Scientific Principles

3 credits - Social Science

6 credits - Organisms and Diversity

Biological Principles of Diversity/Systematics/Conservation:

9 credits are chosen from basic courses in the biological principles of diversity, systematics, and conservation as follows:

One of:

AEBI 212	(3)	Evolution and Phylogeny
BIOL 304	(3)	Evolution

One of:

AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

One of:

BIOL 465	(3)	Conservation Biology
WILD 421	(3)	Wildlife Conservation

Ecology:

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Statistics:

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

Science, Policy, and Management:

9 credits are chosen from interface between science, policy, and management as follows:

* Note: You may take AGECE 200 or ECON 208, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGRI 550	(3)	Sustained Tropical Agriculture
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
GEOG 302	(3)	Environmental Management 1
GEOG 370	(3)	Protected Areas
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

Field Courses

One of:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

General Scientific Principles

6 credits of general scientific principles selected from the following:

* Note: You may take ENVB 430 or GEOG 306, but not both.

(A second field course from the domain curriculum may also be taken.)

** Note: You may take BIOL 432 or ENVB 315, but not both.

BIOL 324	(3)	Ecological Genetics
BIOL 342	(3)	Marine Biology
BIOL 432**	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 315**	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 430*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
GEOG 272	(3)	Earth's Changing Surface
GEOG 306*	(3)	Raster Geo-Information Science
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology

GEOG 350	(3)	Ecological Biogeography
MICR 331	(3)	Microbial Ecology
PLNT 460	(3)	Plant Ecology
WILD 311	(3)	Ethology
WOOD 420	(3)	Environmental Issues: Forestry

Social Science:

One of:

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ANTH 416	(3)	Environment/Development: Africa
ECON 326	(3)	Ecological Economics
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

Organisms and Diversity:

6 credits of organisms and diversity selected as follows:

* Note: You may take BIOL 350 or ENTO 350, but not both; you may take BIOL 540 or ENVR 540, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANTH 311	(3)	Primate Behaviour and Ecology
BIOL 335	(3)	Marine Mammals
BIOL 350*	(3)	Insect Biology and Control
BIOL 355	(3)	Trees: Ecology & Evolution
BIOL 427	(3)	Herpetology
BIOL 540*	(3)	Ecology of Species Invasions
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENVR 540*	(3)	Ecology of Species Invasions
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology
WILD 424	(3)	Parasitology

7.10.2 Ecological Determinants of Health Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Marilyn Scott Telephone: 514-398-7996 Email: marilyn.scott@mcgill.ca

7.10.2.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health - Cellular (63 credits)

The Cellular concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Cellular concentration will explore these interactions in more depth, at a physiological level. Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Course (3 credits)

PARA 410	(3)	Environment and Infection

Domain: Complementary Courses (39 credits)

39 credits of the complementary courses are selected as follows:

21 credits - Fundamentals, 3 credits from each category

12 credits - Human Health, maximum of 3 credits from any one category

6 credits - Natural Environment, maximum of 3 credits from any one category

Fundamentals:

21 credits of Fundamentals, 3 credits from each category.

Health, Society, and Environment

* Note: You may take GEOG 221 or NRSC 221, but not both.

GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
NRSC 221*	(3)	Environment and Health
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness

Toxicology

ANSC 312	(3)	Animal Health and Disease
PHAR 303	(3)	Principles of Toxicology

Cellular Biology

ANSC 234	(3)	Biochemistry 2
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 202	(3)	Molecular Cell Biology

Genetics

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

Molecular Biology

BIOL 200	(3)	Molecular Biology
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Nutrition

* Note: NUTR 307 - Video conference Downtown and at the Macdonald campus.

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307*	(3)	Human Nutrition

Human Health:

12 credits chosen from Human Health, maximum of 3 credits from any one category:

Immunology and Pathogenicity

MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease

Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
WILD 424	(3)	Parasitology

Nutrition

NUTR 403	(3)	Nutrition in Society
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Drugs and Hormones

ANSC 424	(3)	Metabolic Endocrinology
PHAR 300	(3)	Drug Action

Physiology

ANSC 323	(3)	Mammalian Physiology
PHGY 209	(3)	Mammalian Physiology 1

Natural Environment:

6 credits chosen from the Natural Environment, maximum of 3 credits from any one category:

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

Techniques and Management

BREE 322	(3)	Organic Waste Management
CHEE 230	(3)	Environmental Aspects of Technology
ENVB 437	(3)	Assessing Environmental Impact
GEOG 302	(3)	Environmental Management 1
URBP 507	(3)	Planning and Infrastructure

Pest Management

* Note: You may take BIOL 350 or ENTO 350, but not both.

BIOL 350*	(3)	Insect Biology and Control
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects

Pollution Control and Management

BREE 518	(3)	Bio-Treatment of Wastes
NRSC 333	(3)	Pollution and Bioremediation

Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both.

BIOL 432	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
ENVR 540*	(3)	Ecology of Species Invasions
MICR 331	(3)	Microbial Ecology
PLNT 304	(3)	Biology of Fungi
PLNT 460	(3)	Plant Ecology

7.10.2.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.)- Major Environment - Ecological Determinants of Health - Population (63 credits)

The Population concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health. Students in the Cellular concentration will explore these interactions in more depth, at a physiological level.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Course (3 credits)

PARA 410	(3)	Environment and Infection

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

21 credits - Fundamentals, maximum of 3 credits from each category

6 credits - List A categories, maximum of 3 credits from any one category

12 credits - List B categories, maximum of 3 credits from any one category

Fundamentals:

21 credits of fundamentals, 3 credits from each category:

Health and Environment

GEOG 221	(3)	Environment and Health
NRSC 221	(3)	Environment and Health

Health and Society

GEOG 303	(3)	Health Geography
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness

Toxicology

ANSC 312	(3)	Animal Health and Disease

PHAR 303	(3)	Principles of Toxicology

Biology

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Nutrition

* Note: NUTR 307 (Video conference Downtown and at the Macdonald campus)

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 207	(3)	Nutrition and Health
NUTR 307*	(3)	Human Nutrition

Advanced Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both.

BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
ENVB 506	(3)	Quantitative Methods: Ecology
ENVR 540*	(3)	Ecology of Species Invasions
MICR 331	(3)	Microbial Ecology
PLNT 460	(3)	Plant Ecology

List A:

6 credits from the following List A categories, maximum of 3 credits from any one category:

Hydrology, Climate, and Agriculture

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

Decision Making and Social Change

* Note: You may take AGECE 200 or ECON 208, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 242	(3)	Management Theories and Practices
BTECE 502	(3)	Biotechnology Ethics and Society
ECON 208*	(3)	Microeconomic Analysis and Applications
EDER 461	(3)	Society and Change
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PHIL 343	(3)	Biomedical Ethics
URBP 520	(3)	Globalization: Planning and Change

Development and History

AGRI 210	(3)	Agro-Ecological History
ANTH 212	(3)	Anthropology of Development
HIST 292	(3)	History and the Environment
SOCI 254	(3)	Development and Underdevelopment

List B:

12 credits from the following List B categories, maximum of 3 credits from any one category:

Techniques and Management

* Note: You may take ENVB 430 or GEOG 201, but not both.

CHEE 230	(3)	Environmental Aspects of Technology
ENVB 430*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
GEOG 201*	(3)	Introductory Geo-Information Science
URBP 507	(3)	Planning and Infrastructure

Immunology and Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
PARA 438	(3)	Immunology
WILD 424	(3)	Parasitology

Nutrition and Agriculture

* Note: NUTR 512 (Video conference Downtown and at the Macdonald campus)

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
NUTR 403	(3)	Nutrition in Society
NUTR 501	(3)	Nutrition in Developing Countries

NUTR 512* (3) Herbs, Foods and Phytochemicals

Populations and Place

CANS 407 (3) Regions of Canada
 GEOG 300 (3) Human Ecology in Geography
 GEOG 498 (3) Humans in Tropical Environments
 PSYC 533 (3) International Health Psychology

Pollution and Pest Management

BIOL 350 (3) Insect Biology and Control
 BREE 322 (3) Organic Waste Management
 ENTO 352 (3) Biocontrol of Pest Insects
 NRSC 333 (3) Pollution and Bioremediation

Genetics

BIOL 202 (3) Basic Genetics
 LSCI 204 (3) Genetics

7.10.3 Environmetrics Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Pierre Dutilleul Telephone: 514-398-7870 Email: pierre.dutilleul@mcgill.ca

7.10.3.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Environmetrics (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

In view of the crucial need for sound study design and appropriate statistical methods for analyzing environmental changes and their impacts on humans and various life forms and their ecological relationships, this program is intended to provide students with a strong background in the use of statistical methods of data analysis in environmental sciences.

Graduates will be capable of effectively participating in the design of environmental studies and adequately analyzing data for use by the environmental community. Accordingly, the list of courses for the Environmetrics Domain is composed primarily of statistics courses and mathematically oriented courses with biological and ecological applications. The list is completed by general courses that refine the topics introduced in the MSE core courses by focusing on the ecology of living organisms, soil sciences or water resources, and impact assessment. These courses should allow the students to understand their interlocutors and be understood by them in their future job. Students can further develop their background in applied or mathematical statistics and their expertise in environmental sciences by taking complementary courses along each of two axes: statistics and mathematics, and environmental sciences. An internship is also offered to students to provide them with preliminary professional experience.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" (available on the MSE website at <http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Prerequisites and equivalent courses are common with Math courses, so check with your adviser when choosing your courses. Be especially careful with Statistics courses, as you will receive no credit (and no warning!) for a course that is considered equivalent to one you have already taken. Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Statistics courses BIOL 373 OR AEMA 310 can be taken in U1, but do not take them if you want to follow Option 1 (below), as they overlap with MATH 324.

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course if you want to take it on the Downtown campus, and in Section 051 of an ENVR course if you want to take it on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

AEMA 403	(3)	Environmetrics Stage
AEMA 414	(3)	Temporal and Spatial Statistics 01

Domain - Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

12 credits - Fundamentals

3 credits - Basic Environmental Science

6 credits - Statistics, one of two options

15 credits - List 1 and List 2

Fundamentals:

12 credits of Fundamentals, 3 credits from each category.

Ecology

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Impact

ENVB 437	(3)	Assessing Environmental Impact
MIME 308	(3)	Social Impact of Technology

Modelling

BIOL 309	(3)	Mathematical Models in Biology
ENVB 506	(3)	Quantitative Methods: Ecology

GIS Techniques

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Basic Environmental Science:

One of:

BREE 217	(3)	Hydrology and Water Resources
CIVE 323	(3)	Hydrology and Water Resources
ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography

Statistics:

6 credits of Statistics are selected from one of the following two options.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science. Several Statistics courses overlap (especially with MATH 324) and cannot be taken together. These rules do not apply to B.Sc.(Ag.Env.Sc.) students.

Option 1

MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Option 2

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

And one of:

AEMA 411	(3)	Experimental Designs 01
CIVE 555	(3)	Environmental Data Analysis
GEOG 351	(3)	Quantitative Methods
SOCI 461	(3)	Quantitative Data Analysis

A total of 15 credits are chosen from the following two lists.

List 1

3 credits minimum of statistics and mathematics chosen from:

* Note: or equivalent courses to BREE 252 or BREE 319.

BIOL 434	(3)	Theoretical Ecology
BREE 252*	(3)	Computing for Engineers
BREE 319*	(3)	Engineering Mathematics
GEOG 501	(3)	Modelling Environmental Systems
MATH 223	(3)	Linear Algebra
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Regression and Analysis of Variance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
SOCI 504	(3)	Quantitative Methods 1
SOCI 505	(3)	Quantitative Methods 2
SOCI 580	(3)	Social Research Design and Practice

List 2

3 credits minimum of environmental sciences chosen from:

AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 553	(3)	Neotropical Environments
ENVB 313	(3)	Phylogeny and Biogeography
GEOG 300	(3)	Human Ecology in Geography
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 494	(3)	Urban Field Studies
GEOG 499	(3)	Subarctic Field Studies
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology
WILD 401	(4)	Fisheries and Wildlife Management
WOOD 420	(3)	Environmental Issues: Forestry

7.10.4 Food Production and Environment Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Caroline Begg Telephone: 514-398-8749 Email: caroline.begg@mcgill.ca

7.10.4.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Food Production and Environment (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. in Environment program.

The business of food production is an area of human activity with a large and intimate interaction with the environment. Modern agriculturalists must strike a delicate balance between trying to provide food for themselves, their families, and urban dwellers and trying to minimize environmental damage. When negative effects due to agricultural activities do occur, they are not usually the classic point-source effects that we have come to associate with industry or large cities. Rather, the effects are over extremely large land areas cumulating, perhaps, in pollution of river systems or lakes some distance away. As world populations grow, and as diets change, potentially negative interactions between agricultural systems and other facets of the environment will become more frequent. In the same way, urban sprawl will make conflicts between agriculture and urbanites more common.

With a judicious choice of courses, graduates of this domain may be eligible to apply for membership in the Ordre des agronomes du Québec (OAQ) and the Agricultural Institute of Canada (AIC).

Program Prerequisites or Corequisites

All students in this program **MUST** take these pre- or corequisite courses, or their equivalents. These courses are taken as follows:

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
LSCI 211	(3)	Biochemistry 1

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

CHEM 212	(4)	Introductory Organic Chemistry 1
FDSC 230	(4)	Organic Chemistry

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (9 credits)

AEBI 210	(3)	Organisms 1
AGRI 210	(3)	Agro-Ecological History
PLNT 300	(3)	Cropping Systems

Domain: Complementary Courses (33 credits)

33 credits of complementary courses selected as follows:

15 credits - Basic Sciences

12 credits - Applied Sciences

6 credits - Social Sciences/Humanities

Basic Sciences:

15 credits of Basic Sciences selected as follows:

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

One of:

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 250	(3)	Principles of Animal Science

One of:

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Applied Sciences:

12 credits of Applied Sciences from the following:

* Note: You may take BREE 217 or GEOG 322, but not both; you may take FDSC 200 or NUTR 207, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 435	(3)	Soil and Water Quality Management

AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
ENVB 437	(3)	Assessing Environmental Impact
FDSC 200*	(3)	Introduction to Food Science
FDSC 535	(3)	Food Biotechnology
GEOG 302	(3)	Environmental Management 1
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
NUTR 207*	(3)	Nutrition and Health
NUTR 403	(3)	Nutrition in Society
PARA 410	(3)	Environment and Infection
PHAR 303	(3)	Principles of Toxicology
PLNT 434	(3)	Weed Biology and Control
SOIL 315	(3)	Soil Fertility and Fertilizer Use
SOIL 445	(3)	Agroenvironmental Fertilizer Use
SOIL 510	(3)	Environmental Soil Chemistry
WILD 401	(4)	Fisheries and Wildlife Management

Social Sciences/Humanities:

6 credits in Social Sciences and Humanities are selected as follows:

* Note: You may take AGECE 200 or ECON 208, but not both; you may take AGECE 333 or ECON 405, but not both.

** Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 320	(3)	Intermediate Microeconomic Theory
AGECE 333*	(3)	Resource Economics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
ECON 405*	(3)	Natural Resource Economics
GEOG 404	(3)	Environmental Management 2
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
SOCI 254	(3)	Development and Underdevelopment
SOCI 565	(3)	Social Change in Panama
WILD 415**	(2)	Conservation Law

7.10.5 Land Surface Processes and Environmental Change Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
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7.10.5.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.)-Major Environment - Land Surface Processes and Environmental Change (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The thin soil layer on the planet's land surfaces controls the vital inputs of water, nutrients, and energy to terrestrial and freshwater aquatic ecosystems. Widespread occurrences around the globe of desertification, soil erosion, deforestation, and land submergence over water reservoirs indicate that this dynamic system is under increasing pressure from population growth and changes in climate and land uses. Production of key greenhouse gases (water vapour, CO₂, and methane) is controlled by complex processes operating at the land surface, involving climate change feedbacks that need to be fully understood, given current global warming trends.

The program introduces students to the interacting physical and biogeochemical processes at the atmosphere-lithosphere interface, which fashion land surface habitats and determine their biological productivity and response to anthropogenic or natural environmental changes. Through an appropriate selection of courses, students can prepare for graduate training in emerging research areas such as earth system sciences, environmental hydrology, and landscape ecology.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain Required Course (3 credits)

GEOG 203	(3)	Environmental Systems

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

9 credits - 3 credits from each category of Statistics, GIS and Remote Sensing Techniques, Weather and Climate

9 credits of fundamental land surface processes

3 credits of environment and resource management

3 credits of field course

3 credits of social science

12 credits total of advanced studies chosen from List A: Particular Environments and List B: Surface Processes

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

GIS and Remote Sensing Techniques

One of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

Weather and Climate

One of:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Fundamental Land Surface Processes:

9 credits of fundamental land surface processes chosen as follows:

GEOG 321	(3)	Climatic Environments

And/or one of:

GEOG 272	(3)	Earth's Changing Surface
SOIL 300	(3)	Geosystems

And/or one of:

GEOG 305	(3)	Soils and Environment
SOIL 326	(3)	Soils in a Changing Environment

And/or one of:

BREE 217	(3)	Hydrology and Water Resources

GEOG 322 (3) Environmental Hydrology

Environment and Resource Management:

One of:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 308*	(3)	Ecological Dynamics
BIOL 465	(3)	Conservation Biology
CHEE 230	(3)	Environmental Aspects of Technology
CIVE 225	(4)	Environmental Engineering
ENVB 305*	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
ESYS 301	(3)	Earth System Modelling
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
WILD 421	(3)	Wildlife Conservation
WOOD 420	(3)	Environmental Issues: Forestry
WOOD 441	(3)	Integrated Forest Management

Field Course:

One of:

BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

Social Science:

One of:

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 405	(3)	Natural Resource Economics
GEOG 221	(3)	Environment and Health
GEOG 408	(3)	Geography of Development
GEOG 498	(3)	Humans in Tropical Environments
NRSC 221	(3)	Environment and Health
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change

12 credits total of advanced studies chosen from the following two lists:

List A - Particular Environments:

3-9 credits of advanced study of Particular Environments:

* Note: You may take BIOL 432 or ENVB 315, but not both.

BIOL 432*	(3)	Limnology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
GEOG 350	(3)	Ecological Biogeography
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 536	(3)	Geocryology
GEOG 550	(3)	Historical Ecology Techniques
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

List B - Surface Processes:

3-9 credits advanced study of Surface Processes:

ATOC 315	(3)	Thermodynamics and Convection
BREE 509	(3)	Hydrologic Systems and Modelling
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 331	(3)	Soil Physics
SOIL 510	(3)	Environmental Soil Chemistry

7.10.6 Renewable Resource Management Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet, MSE Program Adviser Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Joann Whalen Telephone: 514-398-7943 Email: joann.whelen@mcgill.ca

7.10.6.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Renewable Resource Management (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

Renewable resource management is an emerging field that focuses on the ecosystem structures and processes required to sustain the delivery, to humanity, of ecosystem goods and services such as food, clean water and air, essential nutrients, and the provision of beauty and inspiration. Renewable resource management recognizes humans as integral components of ecosystems and is used to develop goals that are consistent with sustainability and ecosystem maintenance.

The Renewable Resource Management domain provides students with an understanding of: 1) the interactions between physical and biological factors that determine the nature and dynamics of populations and entities in the natural environment; 2) the ways in which ecosystems can be managed to meet specific goals for the provision of goods and services; 3) the economic and social factors that determine how ecosystems are managed; 4) the ways in which management of natural resources can affect the capability of natural ecosystems to continue to supply human needs in perpetuity; and 5) the approaches and technologies required to monitor and analyze the dynamics of natural and managed ecosystems.

Program Prerequisites or Corequisites

All students in this program MUST take the following pre- or corequisite courses:

One of the following biology courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
LSCI 211	(3)	Biochemistry 1

One of the following chemistry courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

CHEM 212	(4)	Introductory Organic Chemistry 1
FDSC 230	(4)	Organic Chemistry

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - Basic Principles of Ecosystem Processes and Diversity

6 credits - 3 credits from each category of Statistics and GIS

6 credits - Advanced Ecosystem Components

6 credits - Advanced Ecological Processes

6 credits - Social Processes

9 credits - Ecosystem Components or Management of Ecosystems

Basic Principles of Ecosystem Processes:

9 credits of basic principles of ecosystem processes and diversity are selected as follows:

One of:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

Statistics

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

GIS Methods

One of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Advanced Ecosystem Components:

6 credits of advanced ecosystem components selected from:

BIOL 553	(3)	Neotropical Environments
GEOG 372	(3)	Running Water Environments
PLNT 358	(3)	Flowering Plant Diversity
SOIL 326	(3)	Soils in a Changing Environment
WILD 307	(3)	Natural History of Vertebrates

Advanced Ecological Processes:

6 credits of advanced ecological processes selected from:

* Note: You may take BIOL 432 or ENVB 315, but not both; you can take BREE 217 or GEOG 322, but not both.

BIOL 432*	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology

Social Processes:

6 credits of social processes selected as follows:

* If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

** Note: You may take AGECE 333 and ECON 405, but not both.

AGECE 242	(3)	Management Theories and Practices
AGECE 333**	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
CANS 407	(3)	Regions of Canada
ECON 405**	(3)	Natural Resource Economics
GEOG 382	(3)	Principles Earth Citizenship
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

Ecosystem Components or Management of Ecosystems:

9 credits of ecosystem components or management of ecosystems selected from:

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
ENVB 437	(3)	Assessing Environmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PLNT 300	(3)	Cropping Systems
SOIL 335	(3)	Soil Ecology and Management
WILD 401	(4)	Fisheries and Wildlife Management
WOOD 441	(3)	Integrated Forest Management

7.10.7 Water Environments and Ecosystems Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment programs.

Water Environments and Ecosystems – Biological

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Brian Leung Telephone: 514-398-6460 Email: brian.leung2@mcgill.ca

Water Environments and Ecosystems – Physical

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Nigel Roulet Telephone: 514-398-4945 Email: nigel.roulet@mcgill.ca

7.10.7.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment -Water Environments and Ecosystems - Biological (60 credits)

This concentration (60 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

To educate students in both the ecological and physical facets of the water environment, this domain offers two concentrations, with students choosing one or the other.

Those electing the Biological concentration will focus on the mechanisms regulating the different forms of life in water bodies. They will acquire, as well, a good understanding of the physical mechanisms controlling water properties. Students interested in studying the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere, will select the Physical concentration. They will acquire, as well, a solid background in the biological processes taking place in water bodies.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography, and atmospheric science.

Suggested First Year (U1) Courses

For suggestions of courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans

ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate

Domain: Complementary Courses (33 credits)

33 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population/Community and Ecology

3 credits - Math and Statistics

3 credits - Field Course

3 credits - Social Sciences and Policy

18 credits chosen in total from List A and List B

Hydrology/Water Resources, Population/Community and Ecology:

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Math and Statistics:

One of:

* Note: AEMA 310 or equivalent

AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
GEOG 495	(3)	Field Studies - Physical Geography

Social Sciences and Policy:

One of:

AGEC 333	(3)	Resource Economics

ANTH 339	(3)	Ecological Anthropology
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
POLI 345	(3)	International Organizations
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change

18 credits chosen in total from List A and List B as follows:

List A

9-12 credits chosen from:

* Note: you may take BIOL 540 or ENVR 540, but not both; you may take ENVB 210 or GEOG 305, but not both; you may take BIOL 432 or ENVB 315, but not both.

AGRI 435	(3)	Soil and Water Quality Management
BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
BIOL 570	(3)	Advanced Seminar in Evolution
ENTO 535	(3)	Aquatic Entomology
ENVB 210*	(3)	The Biophysical Environment
ENVB 315*	(3)	Science of Inland Waters
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 305*	(3)	Soils and Environment
GEOG 350	(3)	Ecological Biogeography
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
WILD 401	(4)	Fisheries and Wildlife Management

List B

6-9 credits chosen from:

* Note: you may take ATOC 219 or CHEM 219, but not both; you may take ATOC 419 or CHEM 419, but not both; you may take ENVB 430 or GEOG 201, but not both; CHEM 287 and CHEM 297 must be taken together.

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 419*	(3)	Advances in Chemistry of Atmosphere
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 287*	(2)	Introductory Analytical Chemistry
CHEM 297*	(1)	Introductory Analytical Chemistry Laboratory
CHEM 419*	(3)	Advances in Chemistry of Atmosphere

ENVB 430*	(3)	GIS for Natural Resource Management
EPSC 220	(3)	Principles of Geochemistry
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques

7.10.7.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Water Environments and Ecosystems - Physical (63 credits)

This concentration (60 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

To educate students in both the ecological and physical facets of the water environment, this domain offers two concentrations, with students choosing one or the other.

Students interested in studying the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere, will select the Physical concentration. They will acquire, as well, a solid background in the biological processes taking place in water bodies. Those electing the Biological concentration will focus on the mechanisms regulating the different forms of life in water bodies. They will acquire, as well, a good understanding of the physical mechanisms controlling water properties.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography and atmospheric science.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Note: Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (12 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 315	(3)	Thermodynamics and Convection
GEOG 372	(3)	Running Water Environments

Domain: Complementary Courses (30 credits)

30 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population, Community and Ecology

3 credits - Statistics or Calculus

3 credits - Field course

12 credits chosen from List A

6 credits chosen from List B

Hydrology/Water Resources, Population/Community and Ecology

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Statistics or Calculus:

One of:

* Note: AEMA 310 or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
GEOG 495	(3)	Field Studies - Physical Geography

List A:

12 credits chosen from:

AGRI 435	(3)	Soil and Water Quality Management
ATOC 309	(3)	Weather Radars and Satellites

ATOC 568	(3)	Ocean Physics
BREE 416	(3)	Engineering for Land Development
CIVE 323	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 510	(3)	Agricultural Micrometeorology
URBP 520	(3)	Globalization: Planning and Change

And/or one of:

AEMA 305	(3)	Differential Equations
MATH 315	(3)	Ordinary Differential Equations

And/or one of:

BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling

And/or one of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

And/or one of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 306	(3)	Raster Geo-Information Science

List B:

6 credits chosen from:

* Note: You can take BIOL 432 or ENVB 315, but not both.

BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
ENVB 315*	(3)	Science of Inland Waters
GEOG 350	(3)	Ecological Biogeography
GEOG 505	(3)	Global Biogeochemistry
WILD 401	(4)	Fisheries and Wildlife Management

7.11 Major in Environment – B.Sc.

In addition to the domains available to students in the Major program in either the Faculty of Science or the Faculty of Agricultural and Environmental Sciences, “Major in Environment - B.Sc.” students in the Faculty of Science can choose from one of the following two domains:

- Atmospheric Environment and Air Quality, or
- Earth Sciences and Economics.

Refer to [section 7.10: Major in Environment – B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) for the general guidelines and regulations, which apply to all domains in the Major in Environment program.

7.11.1 Atmospheric Environment and Air Quality Domain

This domain is open only to students in the B.Sc. Major in Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Frédéric Fabry Telephone: 514-398-3652 Email: frederic.fabry@mcgill.ca

7.11.1.1 Bachelor of Science (B.Sc.) - Major Environment - Atmospheric Environment and Air Quality (60 credits)

The rapid expansion of industrialization has been accompanied by a host of environmental problems, many, if not most, involving the atmosphere. Some problems are of a local nature, such as air pollution in large urban centres, while others are global, or at least reach areas far removed from industrial activities.

The emphasis in this domain is on the mechanisms of atmospheric flow and on atmospheric chemistry. Courses examine how the atmosphere transports pollution, lifting it to great heights into the stratosphere or keeping it trapped near the ground, moving it around the globe or imprisoning it locally, or how it simply cleanses itself of pollution through rainfall. The domain also gives students the training required to understand the important chemical reactions taking place within the atmosphere, as well as the know-how necessary to measure and analyze atmospheric constituents.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans

ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (18 credits)

18 credits are selected from:

* Note: You may take ATOC 219 or CHEM 219, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 315	(3)	Thermodynamics and Convection
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
GEOG 308	(3)	Principles of Remote Sensing

Domain: Complementary Courses (21 credits)

21 credits of complementary courses are selected as follows:

6 credits - Analytical Chemistry/Calculus courses

3 credits - Statistics

9 credits - Math or Physical Science

3 credits - Social Science

Analytical Chemistry/Calculus:

One of:

AEMA 202	(3)	Intermediate Calculus
MATH 222	(3)	Calculus 3

and 3 credits from:

Note: CHEM 287 and CHEM 297 must be taken together.

CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
FDSC 213	(3)	Analytical Chemistry 1

Statistics:

3 credits of Statistics courses or equivalent from:

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Math or Physical Science:

9 credits of Math or Physical Science (at least 6 credits of which are at the 300 level or above):

* Note: You may take ATOC 419 or CHEM 419, but not both; you may take AEMA 305 or MATH 315, but not both.

AEMA 305*	(3)	Differential Equations
ATOC 309	(3)	Weather Radars and Satellites
ATOC 412	(3)	Atmospheric Dynamics
ATOC 419*	(3)	Advances in Chemistry of Atmosphere

ATOC 540	(3)	Synoptic Meteorology 1
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 377	(3)	Instrumental Analysis 2
CHEM 419*	(3)	Advances in Chemistry of Atmosphere
CIVE 225	(4)	Environmental Engineering
COMP 208	(3)	Computers in Engineering
GEOG 505	(3)	Global Biogeochemistry
MATH 223	(3)	Linear Algebra
MATH 315*	(3)	Ordinary Differential Equations
NRSC 333	(3)	Pollution and Bioremediation
NRSC 510	(3)	Agricultural Micrometeorology

Social Science:

One of:

ANTH 206	(3)	Environment and Culture
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment

7.11.2 Earth Sciences and Economics Domain

This domain is open only to students in the B.Sc. Major Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Jeanne Paquette Telephone: 514-398-4402 Email: jeanne.paquette@mcgill.ca

7.11.2.1 Bachelor of Science (B.Sc.) - Major Environment - Earth Sciences and Economics (66 credits)

The resources necessary for human society are extracted from the Earth, used as raw materials in our factories and refineries, and then returned to the Earth as waste. Geological processes produce resources humans depend on, and they also determine the fate of wastes in the environment. Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. Additionally, economics frequently affects what energy sources power our society and how our wastes are treated. Earth sciences and economics are essential for our understanding of the many mechanisms, both physical and social, that affect Earth's environment.

This domain includes the fundamentals of each discipline. Students learn of minerals, rocks, soils, and waters and how these materials interact with each other and with the atmosphere. Fundamental economic theory and the economic effects of public policy toward resource industries, methods of waste disposal, and the potential effects of global warming on the global economy are also explored.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (21 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 355	(3)	Sedimentary Geology

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

3 credits - Statistics courses

9 credits - List A

12 credits - List B

Statistics:

One of the following Statistics courses or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

List A:

9 credits from:

AGEC 333	(3)	Resource Economics
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 416	(3)	Topics in Economic Development 2
ECON 525	(3)	Project Analysis
ENVB 437	(3)	Assessing Environmental Impact

List B:

12 credits from:

AGRI 435	(3)	Soil and Water Quality Management
ANTH 339	(3)	Ecological Anthropology
BIOL 305	(3)	Animal Diversity
BIOL 553	(3)	Neotropical Environments
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
EPSC 312	(3)	Spectroscopy of Minerals
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotope Geology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 302	(3)	Environmental Management 1
GEOG 322	(3)	Environmental Hydrology
SOIL 510	(3)	Environmental Soil Chemistry

7.12 Honours Program in Environment

Adviser

Ms. Kathy Roulet, MSE Program Adviser
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

This Program is open only to students in the B.Sc. Major in Environment, B.Sc.(Ag.Env.Sc.) Major in Environment, B.A. Faculty Program in Environment, and the B.A. & Sc. Interfaculty Program in Environment.

The Honours Program in Environment offers students the opportunity to undertake a year-long research project in close association with a professor. Honours research provides excellent preparation for graduate studies, but is not required for such studies. The Honours in Environment **adds 6 credits of research to the regular Environment program**. Since the Honours research is carried out in the final year at the same time as the regular courses, it does not add to the length (duration) of the degree. Students simply have 6 fewer credits of electives. If, for some reason, students cannot complete the Honours requirements, they may still graduate with the regular Environment program.

7.12.1 Bachelor of Arts (B.A.) - Honours Environment (60 credits)

This program is open only to students in the B.A. Faculty Program Environment. To be eligible for Honours, students must satisfy the requirements set by their B.A. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. Arts (B.A.) students in the Honours Environment program must also complete a minor concentration in an academic unit other than the McGill School of Environment. Please refer to the Faculty of Arts regulations on Honours programs found under "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs".

Students in the B.A. Honours programs complete the core and domain courses (54 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours Required Courses (6 credits)

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

7.12.2 Bachelor of Science (B.Sc.) - Honours Environment (72 credits)

This program is open only to students in the B.Sc. Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc. Honours programs complete the core and domain courses (60 to 66 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours Required Courses (6 credits)

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research

ENVR 495N2 (3) Honours Research

7.12.3 Bachelor of Arts and Science (B.A. & Sc.) - Honours Environment (60 credits)

This program is open only to students in the B.A. & Sc. Interfaculty Program Environment.

To be eligible for Honours, students must satisfy the requirements set by their B.A. & Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. B.A. & Sc. students must complete at least 30 credits in the Faculty of Arts and at least 30 in the Faculty of Science as part of their Honours program and their Minor concentration or Minor program. For a list of available Minor concentrations or Minor programs, see "Overview of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the coursework (54 credits) for the Interfaculty Program in Environment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours Required Courses (6 credits)

Note: You take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

7.12.4 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Environment (69 credits)

This program is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc.(Ag.Env.Sc.) degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research courses (ENVR 496 and ENVR 497).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc.(Ag.Env.Sc.) Honours program complete the core and domain courses (60 to 63 credits) according to their chosen domain as well as the 6 credits of required Honours courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours - Required Courses (6 credits)

ENVR 496	(3)	Honours Research Part 1
ENVR 497	(3)	Honours Research Part 2

7.13 Joint Honours Component Environment

Adviser

Ms. Kathy Roulet, MSE Program Adviser
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

This program is open only to students in the B.A. Faculty Program in Environment.

The Joint Honours Component Environment offers students the opportunity to undertake a year-long, interdisciplinary research project in their final year in close association with a professor. Honours research provides excellent preparation for graduate studies, but is not required for such studies. If, for some reason, students cannot complete the Joint Honours requirements, they may still graduate with a Minor Concentration Environment.

7.13.1 Bachelor of Arts (B.A.) - Joint Honours Component Environment (36 credits)

Students wishing to study at the honours level in two disciplines can combine joint honours program components in any two Arts disciplines. For a list of available joint honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department for approval of their course selection and their interdisciplinary honours research project.

Students will enter the Joint Honours at the end of their U1 year, and will be required to maintain a PGPA of 3.30 and an overall CGPA of 3.0. Whereas the Faculty Program Environment Honours requires the student to undertake a Minor as well, the Joint Honours Environment component does not.

This program comprises 36 credits, including: Honours research (6 credits); Environment core (21 credits); statistics (3 credits); and complementary courses (6 credits).

Program Prerequisites or Corequisites

The program corequisites (6-8 credits), which are common to the stand-alone Environment Honours program, are in addition to the overall credit account. Students are required to complete these courses by the end of their U1 year.

3 credits of Basic Science, one of the following, or their equivalents (e.g., CEGEP objectives Biology 00UK, Chemistry 00UL, Physics 00UR):

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1
PHYS 101	(4)	Introductory Physics - Mechanics

And one of the following:

3 credits of Calculus or equivalent (e.g., CEGEP objective 00UN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

Required Courses (27 credits)

21 credits of Environment core courses as follows:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought
ENVR 401	(3)	Environmental Research

And 6 credits of honours research from the following:

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

Complementary Courses (9 credits)

One of the following Statistics courses or equivalent:

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

And 6 credits chosen with approval of the Program Adviser, at least 3 credits of which must be at the 400 level or higher.

7.14 Diploma in Environment

Adviser

Ms. Kathy Roulet, MSE Program Adviser
Telephone: 514-398-4306
Email: kathy.roulet@mcgill.ca

7.14.1 Diploma in Environment (30 credits)

The Diploma in Environment is designed for students with an undergraduate degree who wish to enrich or reorient their training, supplementing their specialization with additional undergraduate-level course work in Environment.

The diploma requires 30 credits of full-time or part-time studies at McGill; it may be started in either January or September. The diploma is a one-year program if taken full-time.

Students holding a B.Sc. or a B.A. degree or equivalent in good standing will be permitted to register for the diploma through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or the Faculty of Science, provided they are otherwise acceptable for admission to the University.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. All courses must be at the 200 level and above, and completed with a grade of C or better.

Location Note:

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (18 credits)

Location Note: The ENVR courses are offered on both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment

ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

3 credits - must be taken with the approval of the Program Adviser in an area outside of the student's previous degree (e.g., those with a B.A. or equivalent degree must take at least 3 credits in the natural sciences; those with a B.Sc. or equivalent degree must take at least 3 credits in the social sciences). A list of Suggested Courses is given below.

9 credits - must be taken in an area of focus chosen by the student with the approval of the Program Adviser. At least 6 credits must be taken at the 400 level or higher. A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included in the diploma with the permission of the Program Adviser.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut

GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

* Note: You may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take ENVB 430 or GEOG 201, but not both; you may take BREE 217 or GEOG 322, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics

ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future

GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

7.15 Field Studies

Field study semesters are available in Africa, Barbados, and Panama. For details, see *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > [section 8.2.3: Field Study Semesters and Off-Campus Courses](#)*.

8 Field Studies

8.1 Opportunities for Field Study and Study Abroad

Besides the many academic resources McGill offers on campus, there are also unparalleled opportunities to enrich your educational experience through exchange programs, internships, field study programs, and McGill courses taught abroad.

8.2 Study Abroad Options

There are four types of Study Abroad options available:

- [section 8.2.1: Bilateral Student Exchanges](#)
- [section 8.2.2: CRÉPUQ Exchanges](#)
- [section 8.2.3: Field Study Semesters and Off-Campus Courses](#)
- [section 8.2.4: Study Away On Your Own](#)

8.2.1 Bilateral Student Exchanges

Bilateral student exchange agreements are tuition exchange agreements that exist between McGill University and one other institution, which has been reviewed and approved by McGill. McGill University has bilateral agreements in many countries including: Australia, Austria, Belgium, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Ireland, Italy, Japan, Korea, Mexico, the Netherlands, New Zealand, Norway, Russia, Singapore, Spain, Sweden, Switzerland, Thailand, Turkey, the United Kingdom, and the United States. Exchange programs can be university-wide or faculty-specific. Faculty-specific agreements are only open to students in the specified faculty.

The full listing of bilateral partners can be found at www.mcgill.ca/students/international.

8.2.2 CRÉPUQ Exchanges

The *Conférence des recteurs et principaux des universités du Québec* has established tuition exchange agreements in which all Quebec university students may participate, regardless of whether or not they are Quebec residents. The listing of CRÉPUQ partners is accessible from <http://echanges-etudiants.crepuq.qc.ca>.

8.2.3 Field Study Semesters and Off-Campus Courses

McGill offers you a chance to put theory into practice through local, regional, and international field study semesters and individual courses. Field studies provide practical experience and a chance to integrate and apply knowledge gained in the classroom. In many cases, field courses can be counted toward major program requirements. You should see your adviser for details.

Field Study Semesters are packages of McGill courses aimed at upper-year students that focus on the physical and social aspects of the environment. They are offered in various regions around the world in the Fall or Winter term. Currently, Field Study Semesters are offered in East Africa (Kenya, Uganda and/or Tanzania; see [section 8.3: Africa Field Study Semester](#)), Barbados (see [section 8.4: Barbados Field Study Semester](#) and [section 8.5: Barbados Interdisciplinary Tropical Studies Field Study Semester](#)), and Panama (see [section 8.6: Panama Field Study Semester](#)). Enrolment is limited, and application deadlines and costs vary, so you should consult the relevant sections of this publication for details. If you are interested in participating, you should begin planning your courses before the Field Study semester, as some of the field courses require prerequisites.

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester, the Barbados Field Study Semester, the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, or the Panama Field Study Semester, may complete the 18-credit Minor in Field Studies. See [section 8.7: Field Study Minor](#) for details.

Off-campus McGill courses are also offered to you and sometimes require separate departmental application. The courses are typically offered during the summer months and can be offered in places as varied as Italy, Mexico, or Brazil and in disciplines in Arts, Engineering (including Architecture), Science, Law, or Management. See [section 8.12: Off-Campus Courses](#).

8.2.4 Study Away On Your Own

If you want to study as a Visiting student at a university with which McGill does not have a student exchange agreement, you must consult the Student Affairs Office of your McGill faculty, as well as the Admissions Office of the university to which you are applying regarding application requirements. You would pay tuition to the host institution.

8.3 Africa Field Study Semester

Website: www.mcgill.ca/africa

Students from other universities are eligible to apply to the McGill CFSIA and must also meet the criteria for admission to McGill as a Visiting Student. Please see the Canadian Field Studies in Africa (CFSIA) website for details.

The CFSIA comprises 15 credits of field study courses. Two courses (6 credits) in the natural and social sciences provide interdisciplinary academic context for field study. The other 9 credits are taken from the complementary courses list.

Visit the CFSIA website www.mcgill.ca/africa or refer to this publication for the latest program updates.

Offered: Winter term

Location: East Africa

Enrolment Limit: 38 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include airfare, local travel, all food and accommodation, special admission fees for parks and museums, as well as other field costs. Airfares and currency fluctuation will determine the amount of this charge. The 2013 trip cost is CAD\$12,050. The actual cost for 2014 will be determined by September 2013.

Students can apply for a Mobility Award. See the website for details: www.mcgill.ca/students/international/financialsupport/mobility.

Application Deadline: April 30, 2013 for January 2014 (Winter term of the academic year 2013–2014). Depending on space, there will be a second intake with a deadline date of November 1, 2013.

Application Details: Students must submit the CFSIA application (available on the website), a copy of their transcript, a letter of intent, and one reference letter to Martine Dolmière in the Faculty of Science, Dawson Hall, Room 408. See the website for details: www.mcgill.ca/africa/application.

Prerequisites: The CFSIA program is intended for students in their final two years. A CGPA of 3.00 and higher is recommended.

For more information and course lists, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Field Study > section 13.13.14.1: Field Studies - Minor Field Studies (18 credits)*.

8.4 Barbados Field Study Semester

Website: www.mcgill.ca/bfss

Offered: Fall term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 25 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs. Fees for 2013 were CAD\$6,950; this did not include airfare.

Students enrolled in the Barbados Field Study Semester (BFSS) program may be eligible for a Travel (Mobility) Award from the Government of Quebec; see www.mcgill.ca/students/international/financialsupport/mobility for details.

Application Deadline: March 10, 2014

Application Details: Students must submit a letter of intent, a CV, and a copy of their transcript to the Department of Food Science and Agricultural Chemistry, c/o diane.chan@mcgill.ca. Further details are available at www.mcgill.ca/bfss.

Prerequisites: None

For more information and course lists, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Field Study > section 13.13.14.1: Field Studies - Minor Field Studies (18 credits)*.

8.5 Barbados Interdisciplinary Tropical Studies Field Semester

Website: www.mcgill.ca/bits

Offered: Summer term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 22 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs. Fees for 2013 are CAD\$7,000; this does not include airfare.

McGill students are eligible for a Mobility Award; see www.mcgill.ca/studentaid/mobilityawards for details or contact the Scholarships and Student Aid Office (SSAO) at mobilityaward@mcgill.ca.

Application Deadline: January 11, 2013 for Summer 2013. Depending on space, there will be a second intake with a deadline date of February 8, 2013.

Application Details: Students must submit a letter of intent, a CV, and a copy of their transcript to the Department of Plant Science, c/o julie.major@mcgill.ca. Further details are available at www.mcgill.ca/bits.

Prerequisites: None

For more information and course lists, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Field Study > section 13.13.14.1: Field Studies - Minor Field Studies (18 credits)*.

8.6 Panama Field Study Semester

Website: www.mcgill.ca/pfss

Offered: Winter term

Location: Smithsonian Tropical Research Institute (STRI) in Panama

Enrolment Limit: 26 students

Fees: Students will be required to pay the additional costs associated with delivering the courses in the field. The cost of the program is approximately CAD\$4,500 (**subject to change**). This amount **does not** include airfare, tuition, insurance, or food. A CAD\$1,000 deposit is required and is non-refundable.

Students can apply for a Mobility Award; see www.mcgill.ca/students/international/financialsupport/mobility for details.

Application Deadline: March 29, 2013 for January 2014 (Winter term of the academic year 2013–2014).

Application Details: Students must submit the Panama application (available on the website), a copy of their transcript, a letter of intent, and a CV to Martine Dolmière, in the Faculty of Science, Dawson Hall, Room 408. See www.mcgill.ca/pfss/application for details.

Prerequisites: HISP 218 Spanish Language Elementary or equivalent proficiency, and MATH 203 Principles of Statistics 1 or equivalent. A CGPA of 3.00 and higher is recommended. The program is aimed at undergraduate students in their final year.

For more information and course lists, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Field Study > section 13.13.14.1: Field Studies - Minor Field Studies (18 credits)*.

8.7 Field Study Minor

Field Study Coordinator:

Martine Dolmière (martine.dolmiere@mcgill.ca)

Faculty of Science, Dawson Hall, Room 408

Field Study Minor Adviser (Faculty of Science):

Wendy Brett (wendy.brett@mcgill.ca)

Faculty of Science, Dawson Hall, Room 405

For more information and course lists, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > Field Study > section 13.13.14.1: Field Studies - Minor Field Studies (18 credits)*.

8.8 Exchange Programs

McGill students can study on exchange while paying McGill tuition and earning credits toward their McGill degree.

8.8.1 Eligibility

Student exchange programs are open to McGill students of all nationalities. To participate, applicants must be currently registered as full-time, degree-seeking McGill students, and meet the criteria of their faculty at McGill. Applicants must have completed at least one year of full-time study by the start of the exchange. Students can participate in exchanges for one term or two terms.

The annual Study Abroad Fair will be held early October 2013. Check www.mcgill.ca/students/international for up-to-date information on the Study Abroad Fair.

8.8.2 Applying for an Exchange

Applications must be submitted on Minerva. Complete application details are found on the Student Exchanges and Study Abroad (SESA) website: www.mcgill.ca/students/international.

8.8.2.1 Deadlines

All deadlines regarding student exchanges are available at www.mcgill.ca/students/international/goabroad. **Your Faculty Approval** deadline to participate in an exchange is in January. The Faculty of Law has an earlier deadline. The deadline to submit the supporting documents (if required) for an application to participate in a student exchange for one or two terms of the 2013–2014 academic year is also available on the website.

Detailed information on the application process and deadlines is contained on the Student Exchanges and Study Abroad (SESA) website: www.mcgill.ca/students/international.

8.8.2.2 Bilateral or CRÉPUQ

If a university appears on both the Bilateral and CRÉPUQ listings of exchange partners, you must apply under the bilateral agreement.

8.8.3 Awards and Financial Assistance

Awards and financial assistance are available to students to help with the cost of participating in an exchange. Information on application deadlines and eligibility can be found at www.mcgill.ca/students/international and in this publication.

8.8.3.1 Financial Support

Financial support is available for eligible candidates. Information on available financial support can be found on the Student Exchanges and Study Abroad (SESA) website: www.mcgill.ca/students/international. Questions may be directed to servicepoint@mcgill.ca.

8.8.3.2 Universitas 21 Transportation Stipends

A limited number of Universitas 21 Transportation Stipends are available for McGill students who apply and are accepted to participate in a student exchange with one of McGill University's Universitas 21 partners.

For more information, see [section 8.9.2: Universitas 21](#).

8.8.3.3 McGill Scholarships and Awards

For students who are pursuing an approved program of study, renewable scholarships and awards may be retained for up to one year while on exchange. However, they will not be eligible for McGill's yearly in-course awards.

8.9 Financial Assistance

Students participating in an official McGill University exchange program are eligible to apply for government student assistance as a McGill student, but are not eligible for McGill Student Aid. Students who “study away on their own” are not eligible to receive government student loans through McGill because they are not registered at McGill. Students should verify with the institution they will be attending whether or not they will be eligible to receive government student assistance.

8.9.1 Transfer of Credits from Host Institution

Grades received from the host institution do not appear on the McGill transcript nor are they calculated in the McGill CGPA. The McGill transcript includes a notation of participation in an exchange, the number of transfer credits granted by McGill, and where applicable, McGill course exemptions.

The transfer of credits process must be initiated by the student immediately upon return from exchange with the faculty Student Affairs office, and be completed no later than four months after the exchange.

Before leaving the host institution, students should order two (2) copies of the official transcript for their files, and ensure that the institution sends an official version of the transcript to Student Exchanges and Study Abroad at McGill.

8.9.2 Universitas 21

The Universitas 21 Consortium is an international network of leading research-intensive universities whose objective is to assist members' plans for internationalization, particularly in facilitating student exchanges and short-term research visits. McGill University currently has bilateral student exchange agreements with the following institutions within the U21 Consortium:

- Fudan University
- Korea University
- Lund University
- National University of Singapore
- Shanghai Jiao Tong University
- Tecnológico de Monterrey
- Waseda University
- University of Auckland
- University of Birmingham
- University of British Columbia
- University College Dublin
- University of Edinburgh

- University of Glasgow
- University of Hong Kong
- University of Melbourne
- University of New South Wales
- University of Nottingham
- University of Queensland
- University of Virginia

8.9.3 The Killam Fellowships Program

McGill University participates in The Killam Fellowships Program, which provides exceptional undergraduate students from universities in Canada and the United States with the opportunity to study in the neighbouring country for either one semester or for a full academic year. Established in 2002 through a partnership between the Foundation for Educational Exchange between Canada and the United States of America and the American Killam Trusts, the goal of the program is to increase mutual understanding between Canada and the United States through academic exchange.

8.9.4 Further Information

Additional details regarding study abroad, including application procedures, deadlines, eligibility criteria, travel awards, etc., are on the Student Exchanges and Study Abroad (SESA) website: www.mcgill.ca/students/international.

Student Exchanges and Study Abroad (SESA)
Telephone: 514-398-7878
Email: servicepoint@mcgill.ca

8.10 Internships and Co-op Programs

For information on internships and co-op programs, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > section 1.7: Internships, Exchanges, and Co-op Programs*.

8.11 Off-Campus Summer Programs

McGill offers a number of off-campus summer programs.

8.11.1 McGill Summer Courses in Italy

The Department of Languages, Literatures, and Cultures, in conjunction with other departments at McGill University, offers up to 12 credits of courses given in Florence, Italy, during the months of May, June, and July 2013.

Location: Florence, Italy

Application Deadline: March 28, 2013

Application Details: Application forms and information are available at www.mcgill.ca/italian/summer/florence. Note: All courses in Florence require permit overrides to register on Minerva. These permits will be issued after March 28, 2013, by Ms. Vanna Fonsato or Dr. Enrica Quaroni, only to students who have applied and paid course costs.

Courses:

CLAS 348 (Not offered Summer 2013)	(3)	Greek and Roman Topography
ENGL 347 (Not offered Summer 2013)	(3)	Great Writings of Europe 1
ITAL 206	(6)	Beginners Italian Intensive
ITAL 216	(6)	Intermediate Italian Intensive
ITAL 255	(6)	Advanced Reading and Composition
ITAL 307	(3)	Topics in Italian Culture
ITAL 309	(3)	Perspectives on Italy
POLI 339	(3)	Comparative Developed: Topics 1
POLI 359	(3)	Topics: International Politics 1

8.11.2 Desautels Faculty of Management

Courses are given abroad in the Summer session and cover essentially the same material as the equivalent courses given in Montreal. They will, however, be heavily influenced by the local business environment. Courses are offered in various locations.

For the most up-to-date information concerning Summer Abroad courses, please visit the Minerva Class Schedule at www.mcgill.ca/minerva.

Application Details: For registration and/or advising, please contact the BCom Student Affairs Office at 514-398-4068.

8.12 Off-Campus Courses

McGill offers a number of off-campus courses.

8.12.1 Architecture

Course:

ARCH 379	(3)	Summer Course Abroad

Course:

ARCH 519	(3)	Field Course Abroad

8.12.2 Art History & Communication Studies

Courses:

ARTH 207	(3)	Intro to Early Modern Art (1400–1600)
COMS 200	(3)	History of Communication

8.12.3 Biology

The Faculty of Science offers the following biology courses off campus.

Off-Campus Biology Courses

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1/D2	(3)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
BIOL 573	(3)	Vertebrate Palaeontology Field Course

8.12.4 Classics

Course:

CLAS 348	(3)	Greek and Roman Topography

Not Offered: Summer 2013

8.12.5 Earth & Planetary Sciences

Two-week field studies (May) in selected branches of the geosciences to examine processes in geology.

Courses:

EPSC 231	(3)	Field School 1
EPSC 331	(3)	Field School 2

Courses:

EPSC 341	(3)	Field School 3

8.12.6 English

Course:

ENGL 347	(3)	Great Writings of Europe 1

Not Offered: Summer 2013

8.12.7 Geography

The Faculty of Science offers the following Geography courses off campus.

Off-Campus Geography Courses

GEOG 290	(1)	Local Geographical Excursion
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

8.12.8 Italian Studies

The Department of Languages, Literatures, and Cultures at McGill University offers up to 12 credits of courses given in Florence, Italy.

Courses:

ITAL 206	(6)	Beginners Italian Intensive
ITAL 216	(6)	Intermediate Italian Intensive
ITAL 255	(6)	Advanced Reading and Composition
ITAL 307*	(3)	Topics in Italian Culture
ITAL 309**	(3)	Perspectives on Italy

* **Topic for May 2013:** Landscapes of Struggle: The City and Modernity in Italian Post-War Cinema. Taught in English. For specific details on course content, please consult Prof. E. Bolongaro, Department of Languages, Literatures, and Cultures.

** **Topic for May 2013:** Florence and the Shaping of the Modern Imagination. Taught in English. For specific details on course content, please consult Prof. R. Castro, School of Architecture.

Offered: Please consult the [Class Schedule](#) on Minerva.

Location: Florence, Italy

Application Deadline: March 28, 2013

Application Details: Application forms and information are available at www.mcgill.ca/italian/summer/florence.



Note: All courses in Florence require permit overrides to register on Minerva. These permits will be issued after March 28, 2013, by Ms. Vanna Fonsato or Dr. Enrica Quaroni, only to students who have applied and paid course costs.

8.12.9 Music

Course:

MUAR 387	(3)	The Opera

Not Offered: Summer 2013

8.12.10 Political Science

Courses:

POLI 339*	(3)	Comparative Developed: Topics 1
POLI 359**	(3)	Topics in International Politics 1

* **Topic for Summer 2013:** Media Regulation in the Age of the Internet. This course examines a range of public policy issues emerging in both Europe and North America as a result of the Internet's impact on television and other media forms such as content regulation, foreign ownership restrictions, and media concentration. Field trips to Rome and other cities are planned. For specific details about course content, please consult Prof. R. Schultz, Department of Political Science.

Offered: Section 001 (May 6, 2013 – May 31, 2013)

Location: Florence, Italy

Application Deadline: March 28, 2013

Application Details: Application forms and information are available at www.mcgill.ca/italian.



Note: All courses in Florence require permit overrides to register on Minerva. These permits will be issued after March 28, 2013, by Ms. Vanna Fonsato or Dr. Enrica Quaroni, only to students who have applied and paid course costs.

** **Topic for Summer 2013:** The Rise and Decline of the Italian City-State. This course examines the reasons why Italian city-states succeeded politically, economically, and militarily in the Renaissance. In the 1400s, Florence and its neighbours became centres of wealth, power, and art. Yet by the 1600s, the Italian city-states had been pushed to the margins. We will explore competing arguments regarding their relative success and then relative failure. Field trips to Fiesole, Siena, Pisa, and other cities are planned. For specific details about course content, please consult Prof. A. Maioni, Department of Political Science.

Offered: Section 001 (July 1, 2013 – July 26, 2013)

Location: Florence, Italy

Application Deadline: March 28, 2013

Application Details: Application forms and information are available at www.mcgill.ca/italian.



Note: All courses in Florence require permit overrides to register on Minerva. These permits will be issued after March 28, 2013, by Ms. Vanna Fonsato or Dr. Enrica Quaroni, only to students who have applied and paid course costs.

9 Faculty of Law

9.1 The Faculty of Law at McGill

The Faculty of Law is situated in four graceful 19th-century mansions plus a modern, six-storey building nestled partway up Mount Royal, looking down on the main campus and the city's commercial hub. McGill law professors are expert in both civil and common law traditions, with many emphasizing a comparative approach, most readily demonstrated by the number of international law specialists. This depth gives students a wide choice of courses in public and private international law, including human rights and international business law.

9.1.1 Location

Chancellor Day Hall
3644 Peel Street
Montreal, Quebec H3A 1W9
Canada

Telephone: 514-398-6666
Website: www.mcgill.ca/law

Undergraduate Admissions
3644 Peel Street, Room 418
New Chancellor Day Hall
Montreal, Quebec H3A 1W9

Telephone: 514-398-6602
Email: undergradadmissions.law@mcgill.ca

Graduate Admissions
3644 Peel Street, Room 406
New Chancellor Day Hall
Montreal, Quebec H3A 1W9
Telephone: 514-398-6635
Email: grad.law@mcgill.ca

9.1.2 Faculty Administrative Officers

Faculty Administrative Officers

Daniel Jutras; LL.B.(Montr.), LL.M.(Harv.)	Dean
Jaye Ellis; B.A.(Calg.), LL.B., B.C.L.(McG.), LL.M.(Br. Col.), D.C.L.(McG.), (Hydro-Québec Sustainable Development Law Scholar)	Associate Dean (Academic)
Rosalie Jukier; B.C.L., LL.B.(McG.), B.C.L.(Oxf.)	Associate Dean (Graduate Studies)
Frédéric Mégret; LL.B.(King's College), D.E.A.(Paris), Ph.D.(Geneva/Paris) (Canada Research Chair on the Law of Human Rights and Legal Pluralism)	Associate Dean (Research)
Ali Martin Mayer; B.Sc., B.C.L., LL.B.(McG.)	Assistant Dean (Admissions and Recruitment)
Véronique Bélanger; B.A.(Montr.), B.C.L., LL.B., LL.M.(McG.)	Assistant Dean (Strategic Planning)
Aisha Topsakal; B.C.L., LL.B.(McG.), M.I.S.(Geneva)	Assistant Dean (Student Life and Learning)
Marie-Hélène Di Lauro	Faculty Administrator and Human Resources Adviser
Daniel Boyer; B.A.(McG.), LL.B.(Queb.), M.L.I.S.(McG.)	Head Librarian

9.1.3 Faculty Administrative Staff

Faculty Administrative Staff

Margaret Baratta; B.A.(C'dia)	Administrative Officer
Manon Gariépy	Admissions Officer
Maryse Chouinard; B.C.L., LL.B.(McG.)	Career Development Office, Director
Bridget Wayland; B.A.(McG.), M.A.(C'dia)	Communications Officer
Ester Driham; B.A., M.A.(Haifa)	Development, Associate Director
Pascale Legros; B.C.L., LL.B.(McG.)	Development Officer
Debbie Carlone	Financial Administrator
Alison Glaser; B.A., B.C.L., LL.B.(McG.)	Research Administrator
Maria Marcheschi	Special Events and Alumni Relations Administrator
Stephanie Nowak; B.A.(C'dia)	Student Affairs Consultant
Nancy Czemmell	Student Affairs Officer
Lysanne Larose; B.Sc., M.Env.(Sher.)	Web Communications Editor

9.1.4 Directors of Institutes

Institute of Air and Space Law

Paul S. Dempsey; A.B.J., J.D.(Georgia), LL.M.(George Washington), D.C.L.(McG.) (on leave)	Director

Institute of Comparative Law

Helge Dedek; LL.M.(Harv.), Ph.D.(Bonn)	Director

9.1.5 Directors of Research Centres

Centre for Human Rights and Legal Pluralism

Colleen Sheppard; B.A., LL.B.(Tor.), LL.M.(Harv.)

Director

Centre for Intellectual Property Policy

Pierre-Emmanuel Moysé; LL.B., LL.M., LL.D.(Montr.)

Director

Centre for Medicine, Ethics and Law

Margaret A. Somerville; A.M., F.R.C.S., A.u.A.(Pharm.)(Adel.), LL.B.(Syd.), D.C.L.(McG.), LL.D. Hon. Causa(Windsor, Macquarie, St. FX), D.Sc. Hon. Causa(Ryerson), Doctor of Humane Letters Hon. Causa(Mt. St. Vin.) (*Samuel Gale Professor of Law*)

Founding Director

Centre for Research of Air and Space Law

Paul S. Dempsey; A.B.J., J.D.(Georgia), LL.M.(George Washington), D.C.L.(McG.)

Director

Paul-André Crépeau Centre for Private and Comparative Law

Lionel Smith; B.Sc.(Tor.), LL.B.(W. Ont.), LL.M.(Camb.), D.Phil.(Oxf.), LL.B.(Montr.) (*James McGill Professor*)

Director

9.1.6 Faculty Members

Teaching Faculty

Wendy Adams; B.A.(Laur.), LL.B.(Tor.), LL.M.(Mich.)

Payam Akhavan; LL.B.(York), LL.M., S.J.D.(Harv.)

Kirsten Anker; B.Sc., LL.B., Ph.D.(Syd.)

Mark Antaki; B.C.L., LL.B.(McG.), M.A., Ph.D.(Calif.)

Frédéric Bachand; LL.B.(Montr.), LL.M.(Camb.), LL.D.(Montr.), Docteur en droit(Paris II)

Adelle Blackett; B.A.(Qu.), LL.B., B.C.L.(McG.), LL.M., J.S.D.(Col.) (*William Dawson Scholar*)

Angela Campbell; B.A., B.C.L., LL.B.(McG.), LL.M.(Harv.) (*on leave*)

Allison Christians; J.D.(Col.), LL.M.(NYU School of Law) (*H. Heward Stikeman Chair in the Law of Taxation*)

François Crépeau; B.C.L., LL.B.(McG.), D.E.A.(Paris II), LL.D.(Paris I) (*Hans and Tamar Oppenheimer Chair in Public International Law*)

Helge Dedek; Assessor iuris(First and Second German State Examination in Law), LL.M.(Harv.), Ph.D.(Bonn)

Paul S. Dempsey; A.B.J., J.D.(Georgia), LL.M.(George Washington), D.C.L.(McG.) (*Tomlinson Professor of Global Governance*)

Jaye Ellis; B.A.(Calg.), LL.B., B.C.L.(McG.), LL.M.(Br. Col.), D.C.L.(McG.) (*Hydro-Québec Sustainable Development Law Scholar*)

Yaëll Emerich; B.C.L., LL.M., D.E.A.(Paris II), Docteur en droit(Lyon/Montr.), Postdoc.(McG.)

Vincent Forray; Docteur en droit privé(Univ. de Savoie)

Evan Fox-Decent; B.A., M.A.(Manit.), J.D., Ph.D.(Tor.)

Fabien Gélinas; LL.B., LL.M.(Montr.), D.Phil.(Oxf.)

H. Patrick Glenn; B.A.(Br. Col.), LL.B.(Qu.), LL.M.(Harv.), D.E.S., Docteur d'état en droit privé(Strasbourg), LL.D. Hon. Causa(Fribourg), F.R.S.C. (*Peter M. Laing Professor of Law*)

Richard Gold; B.Sc.(McG.), LL.B.(Hons.)(Tor.), LL.M., S.J.D.(Mich.) (*James McGill Professor*)

Ram Jakhu; B.A., LL.B., LL.M.(Panjab), LL.M., D.C.L.(McG.)

Richard A. Janda; B.A.(Tor.), LL.B., B.C.L.(McG.), LL.M.(Col.) (*Hydro-Québec Sustainable Development Law Scholar*)

Rosalie Jukier; B.C.L., LL.B.(McG.), B.C.L.(Oxf.)

Daniel Jutras; LL.B.(Montr.), LL.M.(Harv.) (*Wainwright Professor of Civil Law*)

Teaching Faculty

Lara Khoury; LL.B.(Sher.), B.C.L., D.Phil.(Oxf.)

Alana Klein; B.A.(C'dia), B.C.L., LL.B.(McG.)

Hoi Kong; B.A.(Hons.), M.A., B.C.L., LL.B.(McG.), LL.M., J.S.D.(Col.) (*Hydro-Québec Sustainable Development Law Scholar*)

David Lametti; B.A.(Tor.), LL.B., B.C.L.(McG.), LL.M.(Yale), D.Phil.(Oxf.)

Robert Leckey; B.A.Hons.(Qu.), B.C.L., LL.B.(McG.), S.J.D.(Tor.) (*William Dawson Scholar*)

Roderick A. Macdonald; B.A., LL.B.(York), LL.L.(Ott.), LL.M.(Tor.), LL.D.(Montr.), LL.D.(York), F.R.S.C., O.C. (*F.R. Scott Professor of Public and Constitutional Law*) (on leave)

Frédéric Mégret; LL.B.(King's Coll. Lond.), D.E.A.(Paris), Ph.D.(Geneva/Paris) (*Canada Research Chair on the Law of Human Rights and Legal Pluralism*)

Pierre-Emmanuel Moyse; LL.B., LL.M., LL.D.(Montr.)

Victor Muñoz-Fraticelli; B.A.(C'nell), J.D.(Puerto Rico), M.A., Ph.D.(Chic.) (*joint appt. with Political Science*)

Vrinda Narain; LL.B.(Delphi), LL.M., D.C.L.(McG.)

Tina Piper; B.A.Sc.(Tor.), LL.B.(Dal.), B.C.L., M.Phil., D.Phil.(Oxf.)

René Provost; LL.B.(Montr.), LL.M.(Calif., Berk.), D.Phil.(Oxf.)

Geneviève Saumier; B.Com., B.C.L., LL.B.(McG.), Ph.D.(Camb.)

Colleen Sheppard; B.A., LL.B.(Tor.), LL.M.(Harv.)

Lionel Smith; B.Sc.(Tor.), LL.B.(W. Ont.), LL.M.(Camb.), D.Phil., M.A.(Oxf.), LL.B.(Montr.) (*James McGill Professor*)

Stephen A. Smith; B.A.(Qu.), LL.B.(Tor.), D.Phil.(Oxf.) (*James McGill Professor*)

Margaret A. Somerville; A.M., F.R.C.S., A.u.A.(Pharm.)(Adel.), LL.B.(Syd.), D.C.L.(McG.), LL.D. Hon. Causa(Windsor, Macquarie, St. FX), D.Sc. Hon. Causa(Ryerson), Hon. Degree Doctor of Humane Letters(Mt. St. Vin.), Doctor of Sacred Letters Hon. Causa(St. Marks College, Br. Col.) (*Samuel Gale Professor of Law*)

Shauna Van Praagh; B.Sc., LL.B.(Tor.), LL.M., J.S.D.(Col.)

Catherine Walsh; B.A.(Dal.), LL.B.(New Br.), B.C.L.(Oxf.)

Daniel Weinstock; B.A., M.A.(McG.), D.Phil.(Oxf.)

Adjunct Professors

Kenneth Atlas; B.C.L., LL.B.(McG.)

Donald Bunker; B.A.(Sir G. Wms.), B.C.L., LL.M., D.C.L.(McG.)

Carol Cohen; B.A., B.C.L.(McG.)

Marie Deschamps; LL.B.(Montr.), LL.M.(McG.)

Pierre Deschamps; L.Sc.R., B.C.L.(McG.)

Jeffrey Edwards; B.C.L., LL.B.(McG.), LL.D.(Laval)

Stephan Eriksson; LL.M.(Uppsala)

Morris J. Fish; B.A., B.C.L., LL.D.(McG.)

Robert Godin; B.C.L.(McG.), B.A.(Sir G. Wms.)

Sunny Handa; B.Com.(McG.), LL.B.(Tor.), LL.M., D.C.L.(McG.)

Andrew Harakas; B.A.(Mich.), LL.B.(Juris Doctor)(Mich. St.), LL.B.(Witw.), D.C.L.(McG.)

Patrick Healy; B.A.(Vic., BC), B.C.L.(McG.), LL.M.(Tor.)

David Howes; B.A.(Tor.), M.Litt.(Oxf.), B.C.L., LL.B.(McG.), Ph.D.(Montr.)

Rod Margo; LL.M.(McG.), Ph.D.(Lond.)

Peter Nesgos; D.C.L.(McG.)

John Saba; B.A., M.A., LL.B., LL.M., D.C.L.(McG.)

Francis P. Schubert; B.C.L., D.E.S. Rel. intern., Ph.D. Law(Geneva)

William Tetley; C.M., Q.C., B.A.(McG.), LL.L.(Laval)

Adjunct Professors

Peter Van Fenema; LL.M.(McG.)

Ludwig Weber; Lic iur. Dr. Jur.(Heidel.), LL.M.(McG.)

James Woods; B.A., B.C.L., LL.B.(McG.)

Emeritus and Retired Professors

G. Blaine Baker; B.A.(Huron College), LL.B.(W. Ont.), LL.M.(Col.) (*Emeritus Professor*)

Jean-Guy Belley; LL.L., LL.M.(Laval), Doctorat en sociologie juridique(Paris II) (*Sir William C. Macdonald Emeritus Professor of Law*)

Madeleine Cantin Cumyn; B.A., LL.L.(Laval) (*Wainwright Emeritus Professor of Civil Law*)

Irwin Cotler; O.C., B.A., B.C.L.(McG.), LL.M.(Yale), Ph.D.(Hebrew), LL.D. Hon. Causa(Bar-Ilan, York, Simon Fraser, Haifa) (*Emeritus Professor*)

Armand de Mestral; O.C., A.B.(Harv.), B.C.L.(McG.), LL.M.(Harv.), Doctorat Hon. Causa(Université Lyon III, Kwansei Gakuin University) (*Emeritus Professor*)

William F. Foster; LL.B.(Hons.)(Auck.), LL.M.(Br. Col.) (*Sir William C. Macdonald Emeritus Professor of Law*)

Jane Matthews Glenn; B.A.(Hons.), LL.B.(Qu.), Doctorat de l'Université(Strasbourg) (*Emeritus Professor*)

Pierre-Gabriel Jobin; Ad. E., B.A., B.Phil., LL.L.(Laval), D.E.S. en droit privé, Doctorat d'état en droit privé(Montpellier) (*Wainwright Emeritus Professor of Civil Law*)

Dennis R. Klinck; B.A., M.A.(Alta.), Ph.D.(Lond.), LL.B.(Sask.) (*Emeritus Professor*)

Stephen A. Scott; B.A., B.C.L.(McG.), D.Phil.(Oxf.) (*Emeritus Professor*)

9.1.7 Law Library Staff**Law Library Staff**

Daniel Boyer; B.A.(McG.), LL.B.(Queb.), M.L.I.S.(McG.)

Head Librarian

Maryvon Côté; B.A.(Ott.), M.L.I.S.(McG.)

Liaison Librarian

Svetlana Kochkina; M.L.I.S.(McG.)

Liaison Librarian

Louisa Piatti; B.A.(Montr.), M.L.S.(McG.)

Liaison Librarian

9.2 About the Faculty of Law

The Faculty of Law offers a creative and challenging approach to legal education that introduces students to civil law and common law concepts and encourages them to critically evaluate the two traditions. McGill's transsystemic method fosters not only outstanding analytical ability, but also critical reflection and openness to diverse approaches to legal problems.

9.2.1 History of the Faculty of Law to 1968

In the spring of 1848, a group of 23 students reading law for the Bar of Quebec petitioned McGill College to grant them formal instruction leading to a degree in law. In their petition, they pledged to attend the courses offered by William Badgley, a prominent Montreal advocate and circuit judge, who had been giving occasional lectures in law within the Faculty of Arts since 1844. Due to this request, the Board of Governors of McGill formally established a program of instruction in law on July 15, 1848.

In 1852, the Governors decided to establish a separate Faculty of Law. When the new Faculty was formally constituted in 1853, William Badgley was appointed Dean.

Until the early 20th century, McGill remained predominantly a civil law faculty, preparing students for the practising profession in Quebec. Throughout this period, the Faculty and its graduates contributed enormously to scholarship in the civil law. A particular loyalty to the civil law and the Civil Code can be traced as far back as McGill's first Chancellor and fourth Principal, Charles Dewey Day, who was a member of the three-man commission that drafted the 1866 Civil Code of Lower Canada.

This excellence in the civil law continued with scholars such as Eugène Lafleur, William de M. Marler, Arnold Wainwright, and Louis Baudouin. More recently, McGill has been a focal point for the Revision of the Civil Code.

While the civil law has always been pre-eminent at McGill, as early as 1915, the Faculty began to develop the concept of a national legal education with the appointment of Robert W. Lee of Oxford as Dean. By 1920, the Faculty was offering a three-year B.C.L. program, a three-year LL.B. program, and a four-year B.C.L./LL.B. program for those who wished to practise in another jurisdiction or pursue a career in teaching law. Unfortunately, local pressure led to

abandoning the National Program in 1924. In the late 1920s, the Faculty recruited Percy Elwood Corbett, who initiated McGill's second great academic strength: international, constitutional, and human rights law.

In 1928, the Faculty engaged Francis Reginald Scott. During his 58 years at McGill, F.R. Scott established himself as an outstanding constitutional lawyer and civil libertarian. This international and human rights law profile was further enhanced when Corbett persuaded John Humphrey to join the Faculty in 1936. After a decade of teaching international law, Humphrey left McGill in 1946 to become the first Director of the Division of Human Rights in the United Nations Secretariat. He returned to McGill in 1966 where he continued to teach in human rights until his death in 1995.

In 1946, the Faculty engaged Maxwell Cohen, another professor who was to become a leading international lawyer. Cohen played a prominent role in two further initiatives, which reflect McGill's third great academic strength: the establishment of the Institute of Foreign and Comparative Law in 1966, and the re-establishment of the National Program of Legal Education in 1968.

Further details of the Faculty's history can be found in Ian C. Pilarczyk, *A Noble Roster: 150 Years of Law at McGill* (1999); S.B. Frost and D.L. Johnston, *"Law at McGill: Past, Present and Future"* (1981) 27 *McGill L.J.* 33; and in S.B. Frost, *"The Early Days of Law Teaching at McGill"* (1984), 9 *Dal. L.J.* 150.

9.2.2 The National Program since 1968 and the Faculty's New Curriculum

For over 150 years, the Faculty has endeavoured to provide a liberal education in law and jurisprudence suitable as a first training for the practice of law. Since 1968, the Faculty has offered a national professional training that qualifies students to proceed to the legal professions not only in Quebec, but also in all other Canadian jurisdictions. The curriculum, while remaining within the Faculty's control, reflects the expectations of the professional corporations. It is constantly under review in order to respond to the present and future needs of legal professionals in Canada, as well as the requirements of those intending to pursue careers in the public and private sectors where legal training is an asset rather than a formal qualification.

At McGill, the study of law is more than professional training. It has long been acknowledged in the great universities of Europe and North America that the scientific, liberal, and independent study of law must have a place as an academic discipline. This means that the university is recognized as an appropriate forum to examine the law as an element of social organization, from critical, historical, and comparative perspectives. Scholarship in the law is, in this sense, as essential an element in the life of the Faculty as its role in the training of professionals. Indeed, the two functions are inseparable.

McGill occupies a unique position among Canadian law faculties to pursue its dual mission of educating future professionals and promoting scholarship. Through its location in Quebec, the Faculty has a long tradition of teaching and scholarship in both English and French. The staff and students have always been drawn from these two linguistic groups. While English has been the primary language of the Faculty, the use of French in the classroom and as a language in daily life is firmly entrenched. Wilfrid Laurier's valedictory address of 1864 was delivered in his mother tongue.

McGill has also long been a meeting ground for Canada's legal traditions, the civil law deriving from the law of France and more remotely from Roman Law, and the English common law. The Faculty's early curriculum vividly demonstrated the richness of both Quebec and Canadian legal heritage in the 1850s and 1860s through the study of the Institutes of Justinian, the dominant law of pre-Napoleonic France in the form of the *Coutume de Paris*, and that monument of late 18th-century English law, the *Commentaries of William Blackstone*.

The Faculty believes that its program, within which students earn both a civil law (B.C.L.) and a common law (LL.B.) degree, creates an important link between Canada's civil and common law systems. Graduates acquire a number of important advantages. First, the program enables all students to critically examine the foundations of both Canadian legal systems. This study contributes significantly to the advancement of legal theory and jurisprudence. Second, graduates may proceed to the Bars of all the Canadian provinces as well as those of a number of jurisdictions in the United States and elsewhere. Third, the increased interdependence in our modern world means that many legal problems transcend individual legal systems, making knowledge of both the civil law and the common law a valuable asset. Finally, the comparative and transsystemic dimension of McGill's program is useful in foreign service, government work, international practice, and law reform, whether in Quebec or other provinces.

McGill's program engages its students and professorial staff in the study of law not only as a means for achieving desirable social objectives, but also as an end in itself. The Faculty is confident that its graduates, who are awarded B.C.L. and LL.B. degrees simultaneously, will continue to make special contributions to Canadian public and intellectual life through careers that take many paths, and are not limited to any particular province or region, or even to the practice of law.

Since the academic year 1999–2000, students obtain both a B.C.L. and an LL.B. degree after completing 105 credits taken over three or four years. Concepts from the two legal systems are presented through an innovative and integrated methodology that fosters critical analysis. You may also add to your basic law program by completing a minor, major concentration, or honours program. Joint degrees in management or social work are also possible, and you can take part of your legal education at another university.

The New McGill Curriculum

In 1998, the Faculty adopted a creative and challenging approach to legal education that prepares McGill graduates for careers that increasingly require knowledge of more than one legal system. Starting in first year, you are introduced to civil law and common law concepts and encouraged to compare and critically evaluate the two traditions. This unique curriculum is entirely different from the "three-plus-one" programs offered by other law faculties. McGill's transsystemic method fosters not only outstanding analytical ability, but also critical reflection and openness to diverse approaches to legal problems.

The program's structure ensures that you are well grounded in the fundamental legal concepts of the civil law and the common law, in courses specific to each tradition. The comparative dimension of McGill's curriculum focuses primarily upon the law of obligations (contracts and tort or delict) in which remarkable changes are taking place globally involving complex legal transactions across national borders.

The Faculty emphasizes the mastery of underlying principles in private and public law, with a wealth of courses in legal theory, social analysis, and legal pluralism. McGill's proud tradition of public law teaching and scholarship is also reflected in the wide range of courses offered in Canadian constitutional and administrative law, as well as McGill's unsurpassed offerings in international law.

To complement these basic courses, the Faculty offers, through the Institute of Comparative Law, a number of advanced courses in comparative private law. The transsystemic character of the program is also reflected in the teaching of federal courses. In the public as well as corporate and mercantile law fields, courses are taught with both private law traditions in view.

The Faculty's first National Program is described in R.W. Lee, "Legal Education Old and New" (1916) 36 *Can. Law Times* 24 at 115. For a detailed discussion of the National Program from 1968-1998, see J.E.C. Brierley, "Developments in Legal Education at McGill, 1970-1980" (1982), 7 *Dal. L.J.* 364. A monograph-length article on the National Program by R.A. Macdonald appeared under the title "The National Law Program at McGill: Origins, Establishment, Prospects" in (1990) 13 *Dal. L.J.* 211. On the new McGill Program, see Y.-M. Morrisette, "McGill's Integrated Civil and Common Law Program" (2002) *Legal Education* 12.

9.2.3 Legal Education at McGill Today

Since 1951, the Faculty has been located in the J.K.L. Ross mansion, a gift to the University of the late J.W. McConnell. The main law complex comprises this fine 19th-century mansion, known as Old Chancellor Day Hall, and a six-story building, New Chancellor Day Hall, erected in 1966-67 containing classrooms and formerly home of the Law library (financed in large part through the gifts of graduates and other friends of the Faculty). The state-of-the-art Nahum Gelber Law Library opened in September 1998, funded entirely by donations from law students, graduates, and friends of the Faculty. In 2008, extensive renovations began on New Chancellor Day Hall to provide state-of-the-art teaching facilities and office space for active student groups, as well as academic and administrative staff. This renovated space was inaugurated in the spring of 2009.

The combined Chancellor Day Hall complex along with two other fine Peel Street mansions house the students and staff of the undergraduate and graduate programs and the personnel of two institutes and three research centres: the Institute and Centre of Air and Space Law; the Institute of Comparative Law; the Quebec Research Centre of Private and Comparative Law; the Centre for Human Rights and Legal Pluralism; and the Centre for Intellectual Property Policy.

As an integral part of McGill, the Faculty of Law is deeply committed to the two ideals of the University: teaching and scholarship. Throughout its history, McGill has recruited its professors and drawn its students from a wide variety of countries. Today, the Faculty includes professors who obtained their initial legal training in several Canadian provinces, as well as professors from the United States, Austria, the Czech Republic, Australia, and New Zealand. All contribute to the unique scholarly environment of McGill. Similarly, there are over 500 undergraduate students enrolled in McGill Law programs from all 10 Canadian provinces, several states in the United States, and a variety of other countries. McGill law graduates pursue their careers around the world.

In recognition of the international dimension of its staff and students, McGill offers two undergraduate degrees pursued simultaneously in a joint program: the B.C.L. (Bachelor of Civil Law), enabling students to seek admission to one of the legal professions in Quebec or to study the private law systems of continental Europe, and the LL.B. (Bachelor of Laws), enabling students to seek admission to the legal profession in other Canadian provinces, in the United States, the United Kingdom, Australia, and New Zealand.

Studying Canadian law at McGill provides a unique academic experience. It requires mastery of the private and public law systems of Canada's different jurisdictions, as well as the ability to situate analytical understanding of legal rules in a broader intellectual and social context. The Faculty believes that disciplines such as history, social theory, economics, political science, and philosophy offer perspectives that inform the study of law.

McGill's courses reflect these broader themes in the history and philosophy of law. All students enrol in the first-year Foundations course for an initial exposure to these themes. Later, you may select from a number of perspectives courses, in which law is studied in its social setting. For this reason, the fundamental nature of a McGill legal education requires all students to take a significant number of credits offered within each of the two private law disciplines of the Faculty: the civil law and the common law.

McGill insists upon the highest standards of learning and scholarship. Many professors have contributed to a comprehensive treatise on Quebec private law; others have produced leading reference works in corporation law, commercial law, international law, maritime law, air and space law, and constitutional law. Consistently, McGill has placed many students as law clerks at the Supreme Court of Canada, and numerous Faculty professors have served as law clerks at the Supreme Court.

Excellence at McGill is reflected also in a commitment to offering students the opportunity to pursue elements of their legal education in both the English and French languages. The graduation of students expert in both the Civil Law and the Common Law and thoroughly immersed in the historical and philosophical foundations of law and legal ordering shared in the western legal tradition are ideals embraced by all in the Faculty. For a discussion of McGill's role in contemporary Canadian legal education see J.E.C. Brierley, "Quebec Legal Education Since 1945. Cultural Paradoxes and Traditional Ambiguities" (1986) 10 *Dal. L.J.* 5.

9.3 Faculty Governance and Academic Regulations

As the delegate of the Senate of McGill University, the Faculty Council is the principal academic policy-making body within the Faculty of Law. It has either direct or advisory authority over all matters relating to undergraduate admissions, curriculum, examinations, graduate studies, library, and staff appointments.

9.3.1 Faculty Council

The Faculty Council operates through a committee system and meets on average once per month during teaching terms.

Faculty Council is composed of all members of the full-time teaching staff and enough undergraduate and graduate students to constitute one-fifth of its total membership. When considering the admission, evaluation, and standing of students, and when dealing with the recruitment and terms of contract of members of the academic staff, the Faculty Council is composed solely of members of the full-time teaching staff.

9.3.2 Outline of Academic Regulations

Academic Standing is determined under a credit system as set out in the Faculty Academic Regulations contained in the *Registration Materials* published each academic year. This publication, which is posted on the Student Affairs Office website, www.mcgill.ca/law-studies/courses, prior to registration opening

on Minerva in May, contains the detailed Regulations for the McGill Program. The Faculty is also governed by the University Code of Student Conduct and Disciplinary Procedures, found in McGill's *Handbook on Student Rights and Responsibilities* available at www.mcgill.ca/secretariat/policies/students.

Academic Requirements

To be eligible for a Faculty degree, you must complete the required number of credits for that degree within five years of your initial registration in the program, unless you have been granted a leave of absence by the Dean or the Dean's delegate (Regulation 5), or unless you have received permission to pursue your degree on a part-time basis (Regulation 53).

You are not permitted to be enrolled concurrently in a Faculty of Law program and the professional training program of any Bar, whether this program consists of a course of lectures or a period of articling (Regulation 4).

Full-time students at the Faculty must register for at least 12 credits each term, with the exception of your final term, if fewer credits are required to obtain your degree (Regulation 3). You will not receive credit for any course taken to fulfil the requirements of any other degree (Regulation 10).

You should anticipate at least two hours of directed study for every hour of lecture. In addition, you are obliged to write essays, attend seminars, participate in the Legal Methodology Program, and fulfil all other Faculty requirements. You are expected to devote your whole time to your legal studies, and must not undertake other studies during the academic session without prior approval of the Dean or the Dean's delegate.

The Faculty generally follows the University Examination Regulations, and evaluates all students anonymously (Regulations 19 and 22). Examinations and other assignments may be written in either English or French. Examinations are set in the language in which a course is given, but may contain materials in either French or English (Regulation 20).

If you do not pass a session, you will be required to withdraw from the Faculty, subject to your right to apply for readmission to the Faculty (Regulations 49 and 50). See www.mcgill.ca/law-studies/policies/standing for information regarding Academic Standing.

9.3.3 Changes in Regulations

This publication and the Faculty Regulations in force govern students registered in the Faculty of Law during the 2013–2014 academic year. As well, you are subject to changes published in this publication from time to time within the Faculty before Fall registration.

These Regulations, and all others under which the curriculum is administered, are subject to change at any time.

9.4 Admission to the Legal Profession

The Faculty's Career Development Office (CDO) endeavours to maintain up-to-date information on Bar admission requirements for jurisdictions of interest to the majority of students graduating from the Faculty. However, it is the student's responsibility to ensure that they have fulfilled all requirements of the Bar to which they are applying, including pre-law educational requirements.

9.4.1 Admission to the Legal Profession: Canada

Information on the following Bars/Law Societies can be obtained by consulting their websites. For information on the National Committee on Accreditation, which oversees the transfer from one provincial bar to another, visit the Federation of Law Societies of Canada's website: www.flsc.ca. Transfer to the Quebec Bar is managed by the *Comités des équivalences*: www.barreau.qc.ca/fr/barreau/comites/equivalences/index.html

Barreau du Québec: www.barreau.qc.ca
 Chambre des notaires du Québec: www.cdnq.org
 École du barreau du Québec: www.ecoledubarreau.qc.ca
 Law Society of Alberta: www.lawsocietyalberta.com
 Law Society of British Columbia: www.lawsociety.bc.ca
 Law Society of Manitoba: www.lawsociety.mb.ca
 Law Society of New Brunswick: www.lawsociety-barreau.nb.ca
 Law Society of Newfoundland: www.lawsociety.nf.ca
 Law Society of the Northwest Territories: www.lawsociety.nt.ca
 Law Society of Nunavut: www.lawsociety.nu.ca
 Law Society of Prince Edward Island: www.lspei.pe.ca
 Law Society of Saskatchewan: www.lawsociety.sk.ca
 Law Society of Upper Canada (Ontario): www.lsuc.on.ca
 Law Society of Yukon: www.lawsocietyyukon.com
 Nova Scotia Barristers' Society: <http://nsbs.org>

9.4.2 Admission to the Legal Profession: The United States

The LL.B. degree is an approved law degree in some U.S. jurisdictions (i.e., NY and MA), and is accepted as the equivalent of a degree in law from an accredited U.S. law school in those jurisdictions. This approval means that McGill graduates may proceed through the Bar admission process in those jurisdictions in the same way as their U.S. counterparts, subject to a "Foreign Legal Education Evaluation" process for the New York Bar.

You can obtain information on the Bar examinations of New York and Massachusetts by consulting the following websites:

The Massachusetts Board of Bar Examiners: www.mass.gov/bbe.

The New York State Board of Law Examiners: www.nybarexam.org.

In addition to requiring a recognized law degree, some states require specific pre-law studies in order for a candidate to be eligible to sit state Bar exams. Students contemplating practice in the United States should ensure as early as possible that they will meet the Bar admission requirements of the jurisdiction in which they intend to practise. Further information on a number of jurisdictions is available in the Career Development Office's online resources.

9.4.3 Language Requirements for Professions

For details on this topic, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Admission to Professional and Graduate Studies > section 1.10.1: Language Requirements for Professions*.

9.5 Career Development Office

The programs offered by the Faculty of Law prepare students for a wide array of careers in the practice of law and related fields. To enable its graduates to take full advantage of opportunities available to them, the Faculty provides career counselling through its Career Development Office (CDO). The Director of the Office, a faculty graduate and lawyer with experience in private practice, journalism, and non-profit organizations, oversees all career development activities, which include assisting students with their search for summer employment and articling positions. Career development communications, activities, and programs also provide students with information about the various types of career opportunities open to them after graduation.

The CDO also assists employers with their search for candidates by giving them access to *myFuture*, where they can post positions for free, by organizing on-campus interviews, and certainly by inviting employers to various events.

The CDO Advisory Committee, made up of three student representatives, including the Vice-President (Public Relations) of the Law Students Association (LSA), as well as the CDO Director, the CDO Coordinator, and the Assistant Dean (Student Life and Learning), meets twice every semester to discuss issues related to career development.

9.5.1 Resource Centre

The Resource Centre of the Career Development Office (CDO) houses publications related to job search strategies, diversity, employer types, and much more! The CDO also maintains a website full of publications, information, and resources. Students regularly use the online job search tool *myFuture* to research employment opportunities in the legal sector and other fields.

9.5.2 On-Campus Recruitment

The Career Development Office (CDO) organizes and/or coordinates various recruitment processes throughout the year. Two of those involve On-Campus Interviews (OCIs): one for Toronto employers (October) and the other for U.S. firms (August). Students can also take part in organized recruitment processes for Vancouver, Calgary, and Atlantic provinces.

Prior to the Toronto and U.S. OCIs, the CDO publishes a list of employers that will be recruiting. Interested students submit their applications electronically. The CDO schedules preliminary interviews with the selected students. Second-round interviews are arranged between the employer and the student and generally take place at the employer's office.

Montreal recruitment is called *Course aux stages*. During this recruitment period, local firms conduct interviews at their offices. The CDO provides step-by-step support to participants.

9.5.3 Career Days

The Career Development Office (CDO) organizes three career fairs annually: one for Quebec employers, one for out-of-province employers, and one for social justice and government organizations from all over the country. The first two take place in January in preparation for the Canadian organized recruitment processes. Several legal employers visit the Faculty of Law to speak to students about the opportunities available at their law firm, government body, or organization. During *Public Interest Career Day*, which is held in November, guest speakers and panellists also discuss opportunities for law graduates in various public interest fields.

9.5.4 Training Programs and Publications

The Career Development Office (CDO) provides materials and organizes seminars on how to pursue a career in law and related areas. Individual counselling is provided to assist students in their search for employment. Special newsletters for participants of various organized recruitment processes provide step-by-step tips, reminders, and resources. Students can also request a mock interview to prepare for a meeting with a potential employer.

Furthermore, the CDO is pleased to offer several panel discussions and networking events throughout the year at which practitioners discuss their area of specialization with law students and then welcome open-forum and mingling discussions with those present. Through these events and others, the CDO is making efforts to increase student employment opportunities in the Montreal community, elsewhere in Canada, and abroad.

The CDO publishes various guides to assist students with their preparations for life beyond the Faculty of Law. These include: *The Career Development Guide*, *The International Law Career Guide*, *The Public Interest Career Guide*, *The Graduate Law Students' Career Guide*, and *The Smaller Firms and Solo Practitioners Career Guide*.

9.6 Nahum Gelber Law Library

Opened in 1998, the Library is a state-of-the-art facility with a collection of over 185,000 volumes of statutes, regulations, law reports, treatises, journals, and other legal material. In addition to Canadian law, the collection focuses on air and space law, comparative law, private and public international law, human rights law, jurisprudence and international trade law. It also has legal materials from other jurisdictions such as Great Britain, France and the United States.

The Peter Marshall Laing Special Collections Room houses the Wainwright Collection of French law from the *ancien régime* and other rare books. Other collections of note include an extensive collection of French legal theses and the John Humphrey United Nations Collection.

The Dobrin-Steinberg Computer Instruction Classroom, when not in use for teaching, may be used by McGill students for personal research. In addition, there is wireless network access throughout the building as well as over 300 wired workspaces allowing students to use their laptops to access information. There are also six Moot Team Preparation Rooms for the exclusive use of competitive moot teams and three group study rooms for use by McGill Law students.

For complete information on the Nahum Gelber Law Library please visit our website: www.mcgill.ca/library.

9.7 Research Centres

Three research institutes are affiliated to the Faculty of Law: the Institute of Comparative Law (ICL); the Institute of Air and Space Law (IASL); and the Institute for European Studies (IES).

The Faculty of Law also supports five semi-independent research centres:

- the Centre for Human Rights and Legal Pluralism;
- the Centre for Intellectual Property Policy;
- the Centre for Medicine, Ethics and Law, co-sponsored with the Faculties of Medicine and Religious Studies;
- the Centre for Research of Air and Space Law;
- the Quebec Research Centre of Private and Comparative Law.

9.7.1 Centre for Human Rights and Legal Pluralism

This Centre is a focal point for innovative legal and interdisciplinary research, dialogue, and outreach on human rights and legal pluralism. The Centre's mission is to provide students, professors, and the larger community with a locus of intellectual and physical resources for engaging critically with the impact that law has on some of the most compelling social problems of our era.

9.7.2 Centre for Intellectual Property Policy

This Centre was founded in 2003 under the auspices of the Faculty of Law. The goal of the Centre is to explore new perspectives on intellectual property.

Researchers affiliated with the Centre come from a variety of disciplines such as law, management, philosophy, ethics, science, and economics. They study how governments, researchers, and industry manage new and old technologies, and balance the concerns of technology users, technology creators, and citizens. The Centre also regularly holds conferences and workshops on a variety of topics related to intellectual property and innovation.

9.7.3 Centre for Medicine, Ethics and Law

This Centre was founded in 1986 by the Faculties of Medicine, Religious Studies, and Law, with subsequent participation by the Department of Philosophy. Its mission is to undertake and promote transdisciplinary research, teaching, and community involvement in a broad field that includes health law and bioethics. The Centre's members are involved in a wide variety of activities including clinical and research ethics consultations to McGill teaching hospitals, governments, and other institutions. The Centre established a program for graduate students to undertake their master's studies in law (and also in experimental medicine, philosophy, or religious studies) with a Specialization in Bioethics in which Centre members, from the participating faculties including the Faculty of Law, act as thesis supervisors.

9.7.4 Centre for Research of Air and Space Law

This Centre is the principal research and educational outreach arm of McGill's Institute of Air and Space Law (established in 1951), which provides the core degree-granting educational program. The Centre for Research of Air and Space Law produces research, publishes books and other literature, and offers educational products around the world. Since its birth, the Centre has published numerous monographic studies, symposia proceedings, reports and books,

and has produced workshops, seminars, and conferences in Montreal and various international venues. In recent years, Centre researchers have undertaken studies addressing the following topics:

- International Aviation Policy
- Peaceful and Military Uses of Outer Space
- Assessing Outer Space Security
- Outer Space Resources
- Governance of Commercialized Air Navigation Services
- International Air Carrier Liability

Since 1976, the Centre for Research of Air and Space Law has published the *Annals of Air and Space Law*, a specialized journal devoted to promoting scholarship in the field of air and space law. Published every year as a hardcover book, the *Annals of Air and Space Law* is among the premier periodicals in its field. The Centre has also published several other books and reports in recent years, and held seminars and conferences in Montreal, Bogota, Dubai, Macau, New Delhi, Brussels, Abu Dhabi, Cologne, Singapore, and Amsterdam.

9.7.5 Quebec Research Centre of Private and Comparative Law

The Centre of Private and Comparative Law was founded in 1975 and conducts research in the field of comparative private law, with a special focus on jurilinguistics, i.e., the relationship between law and language. The Centre produces historical and critical editions of the Civil Codes and an ongoing multi-volume Treatise of Quebec Civil Law. The Centre has also published a series of volumes making up the Private Law Dictionary / *Dictionnaire de droit privé*, along with associated bilingual lexicons; these are world-renowned authorities on the vocabulary of the civil law in English and French. The Centre sponsors the Civil Law Workshops at the Faculty, which are designed to explore the foundations of the civil law tradition, and many of which have led to published collections of scholarly texts. It also serves as the focus for research relating to the implications for legal knowledge of the Faculty's ground-breaking program of integrated legal education. Most recently in these contexts, Centre scholars have been exploring the interaction of intellectual property law with fundamental private law, and the rising profile of the trust in civil law systems.

9.8 Overview of Undergraduate Degrees Offered

Our undergraduate Law program integrates the Civil Law and the Common Law. Consequently, students in the undergraduate program obtain a double degree of Civil Law (B.C.L.) and Common Law (LL.B.). Students may enrich their program with one of our minor, major, or honours programs, or take one of our joint degree programs in Management or Social Work. Students can also go on exchange through our Student Exchange Program, take non-course credits and outside credits, or put their learning in practice through our various internship programs.

9.8.1 The McGill B.C.L./LL.B. Program

The Faculty of Law's unique integrated program leads to graduation with both civil law and common law degrees (B.C.L./LL.B.).

McGill Law students are introduced to "transsystemic" teaching in the first year of the program; fundamental concepts of the civil law and common law traditions are studied within a single course. This unique method of instruction fosters analytical ability, critical reflection, and openness to diverse approaches to legal problems. Students in the McGill program must complete 105 credits. Most students take three-and-a-half or four years to complete the program. It is possible, however, to complete the program in three years by taking additional credits over the summer and by carrying heavier course loads in second and third years.

9.8.2 M.B.A./Law Program

A short description of the M.B.A./Law program

This joint program, Master of Business Administration (M.B.A.) with integrated Bachelor of Civil Law/Bachelor of Laws (B.C.L./LL.B.) is offered by the Faculty of Law and the Desautels Faculty of Management.

Candidates interested in pursuing this program must submit separate applications to the Faculty of Law and to the Desautels Faculty of Management M.B.A. program. Information about the M.B.A./Law program is available at www.mcgill.ca/law-studies/undergrad-programs/joint/#MBA.

9.8.3 M.S.W./Law Program

This joint program, Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law/Bachelor of Laws (B.C.L./LL.B.) is offered by the Faculty of Law and the School of Social Work.

Candidates interested in pursuing this program must submit separate applications to the Faculty of Law and to the School of Social Work M.S.W. program. Information about the M.S.W./Law program is available at www.mcgill.ca/law-studies/undergrad-programs/joint/#MSW.

9.9 Undergraduate Admissions Policy and Application Procedures

In this section you will find information on our admissions policy, requirements, categories of applicants, deadlines, supporting documents for application, and the application procedures.

9.9.1 Admissions Policy

The Faculty's admissions policy is to select applicants who are best suited to studying law in McGill's uniquely comparative, trans-systemic, and bilingual environment. The Admissions Committee looks for indicators of intellectual curiosity, community engagement, political/social insight, leadership skills, ability to work with others, openness to diversity, maturity, judgment, and potential for development through opportunity or adversity, among other criteria. The Admissions Committee conducts its assessment through a holistic evaluation of each applicant's file, including the applicant's academic record, linguistic abilities, personal statement, extracurricular, community or professional activities, and letters of reference. (See [section 9.9.2.8: Application Supporting Documents](#).)

In addition, applicants must demonstrate substantial reading ability in, and aural comprehension of, both English and French. (See [section 9.9.1.2: Language Requirements](#).)

The Admissions Committee seeks to achieve a socially and culturally diverse learning community drawn from across Canada and beyond, in which there is a balance of women and men, English and French speakers, and a wide range of career aspirations, backgrounds, and life experiences.

The B.C.L./LL.B. is a limited enrolment program for which admission is competitive. Each year the Faculty admits approximately 172 new students. Successful applicants are chosen by the Faculty's Admissions Committee, which is composed of eight full-time faculty members appointed by the Dean, two senior law students selected by the Law Students' Association Executive, and the Assistant Dean, Admissions and Recruitment. Each application is reviewed by at least one member of the Admissions Committee, and the majority of applications are reviewed by two or three members before a final decision is rendered by the Assistant Dean, Admissions and Recruitment.



Note: The Faculty's admissions policy will be revised for the Fall 2014 entrance admissions cycle. Please visit www.mcgill.ca/law-admissions/undergraduates/admissions/policy for the update.

9.9.1.1 Educational Requirements

Candidates must have a minimum of two years (60 credits) of university studies, or a diploma of collegial studies (DCS) from a Quebec College of General and Professional Education (CEGEP), at the time of registration. Students with a French Baccalaureate from Quebec (*Collège international Marie de France* or *Collège Stanislas*) are also eligible to apply.

While candidates who have completed 60 credits of university study are eligible to apply to the Faculty of Law, due to the competition for admission, almost all students admitted in the "university" category have completed an undergraduate degree.



Note: Candidates admitted directly from CEGEP or a Quebec French Baccalaureate who are interested in practising in the United States should be aware that bar admission requirements in a number of states include studies at the university level before studying law.

9.9.1.2 Language Requirements

McGill's integrated program is offered in a bilingual environment. Candidates must demonstrate substantial reading ability in, and aural comprehension of, both English and French. Reading of complex substantive texts in French and English are assigned in all first-year courses and in many upper-year courses, irrespective of the language of instruction of the course.

The Faculty's policy of passive bilingualism permits students to submit written work, write exams, and ask questions in class in either English or French, regardless of the language of instruction. Students may fulfil their Moot Court requirements in English or French. First-year courses are offered in English and French, and a number of upper-year courses are offered in one language only. While examination questions are set in the language in which a course is given, any examination may contain extensive passages in either French or English.

In order to get a sense of the level of reading comprehension that is expected of McGill Law students, candidates are encouraged to visit the website of the [Supreme Court of Canada](#) and to read judgments in English and in French.

Candidates intending to proceed to the Bar of Quebec or the Board of Notaries of Quebec should carefully review *University Regulations and Resources > Undergraduate > Admission to Professional and Graduate Studies > section 1.10.1: Language Requirements for Professions*. The Charter of the French Language imposes certain mandatory language requirements on attorneys and notaries who practise in Quebec.

9.9.1.3 Aboriginal Applicants

North American First Nations, Inuit, and Métis persons are strongly encouraged to apply to the Faculty of Law, and are invited to self-identify on their application form. This allows McGill to inform students about specific services and funding opportunities and to assess its progress in the recruitment and retention of Aboriginal students. This includes "Status," "Treaty," "Registered," "Non-Status," and "Non-Registered" Aboriginal persons.

McGill offers Aboriginal students the opportunity to study and do research with a wide range of legal scholars in English and French. The Faculty is host to a vibrant Aboriginal Law Students' Association, the activities of which have included guest speakers, conferences, visits to the Supreme Court of Canada to witness hearings on Aboriginal rights cases, as well as visits to First Nation communities to discuss contemporary legal issues with Aboriginal authorities.

McGill also gives Aboriginal students the possibility of acquiring practical experience working at the Legal Clinic in Kahnawake, to participate in the Faculty's High School Outreach Program with the Kahnawake Survival School, as well as the chance to participate in the national Kawaskimhon Moot. Students can spend a term away to partake in the Intensive Program in Aboriginal Lands, Resources, and Governments at Osgoode Hall Law School, and the Indigenous Peoples and Policy Program at the University of Arizona.

Aboriginal students may be eligible for numerous sources of financial support. For more information, see www.mcgill.ca/fph/scholarships.

McGill's *First Peoples' House* provides a sense of community and a voice for Aboriginal students who have left their communities to study at McGill. A "home away from home," First Peoples' House offers a mentoring program, computer facilities, guest lectures, elder visits, academic counselling, and an ever-expanding resource centre, as well as housing.

Aboriginal applicants who wish to enrol in a summer pre-law program may do so in the *Program of Legal Studies for Native People (PLSNP)*, offered through the Native Law Centre at the University of Saskatchewan, or in *Le Programme propédeutique prédroit pour candidats autochtones*, offered by the University of Ottawa. Financial assistance from the federal government is also available for summer pre-law programs.

9.9.1.4 Part-time Studies

A candidate may seek permission to pursue studies on a part-time basis, either before admission (from the Admissions Committee) or while studying in the Faculty (from the Associate Dean, Academic). The Faculty may grant permission for the duration of studies or for a limited period, provided that the student can demonstrate that full-time study is not possible for any of the following reasons:

- i. Pregnancy
- ii. Health problems, physical disabilities
- iii. Responsibility for the primary care of others
- iv. Financial hardship
- v. Other special circumstances

Applicants seeking admission to study on a part-time basis must submit a separate letter giving the reasons why they want to study part-time. The Faculty evaluates applications for part-time study on the same basis as those for full-time study.

Students granted permission to register on a part-time basis must register for a minimum of nine credits per term, and complete all the requirements of the B.C.L./LL.B. program within seven academic years.

Candidates seeking admission on a part-time basis must fulfil all the standard entrance requirements of the Faculty of Law.

9.9.1.5 Honesty and Integrity in the Application Process

McGill University and the Faculty of Law value honesty and integrity. Applicants to the Faculty of Law are expected to conduct themselves accordingly. The submission of false, incomplete, inconsistent, or misleading information, or any omission that may result in a false or misleading conclusion, constitutes misconduct in the admission process. Instances of such misconduct include, as examples: the submission of a personal statement that was not written by the applicant, and failure to disclose an LSAT score.

A finding of misconduct in the application process may lead—and has led in the past—to a refusal or, if an offer of admission has already been extended, a withdrawal of the offer at the sole discretion of the University. Intent is not an element of a finding of misconduct.

As a member school of the Law School Admissions Council (LSAC), McGill's Faculty of Law reserves the right to report any misconduct to the LSAC's *Misconduct and Irregularities in the Admissions Process Subcommittee* for its investigation.

9.9.2 Application Procedures for Undergraduate Programs (Law)

Law at McGill is a limited enrolment program. Apply as early as possible and ensure that we have received all required supporting documents on or before the appropriate deadline. Files are reviewed only when complete.

9.9.2.1 Online application

Candidates must apply to the B.C.L./LL.B. program online. The [online application](#) is available as of September 1. In order to avoid unnecessary processing delays, please read the application instructions carefully. **Please email the Undergraduate Admissions Office at the Faculty of Law if you are unable to apply online.**

Once you have applied, an acknowledgment notice will be sent to the email address indicated on your application the day following the submission of your application form. If you have not received your acknowledgment notice the day following the submission of your application, you should contact the Admissions Office at the Faculty of Law (514-398-6602 or [email](#)).

9.9.2.2 Verifying the status of your application via Minerva

Your acknowledgment notice will provide you with your McGill Identification (ID), and a password that you will need to log in to the [Minerva](#) website.

You are responsible for monitoring the status of your application on Minerva. When verifying the status of your application, an indication of "Items outstanding" means that your application is incomplete. **If your application remains incomplete after the deadline for submission of supporting documents, your application will be cancelled.** An indication of "Ready for review" means that your file is complete and/or under review by the Admissions Committee. Your status will indicate "Ready for review" until a final decision is rendered.

- Your file will not be cancelled if only your LSAT score is missing after the deadline. The status of your application will indicate “Items outstanding” until we get your score. If writing the LSAT, your file will be circulated for review by the Admissions Committee only when all pending LSAT results are received.

During peak periods (i.e., close to deadlines), the Admissions Office receives a high volume of documents and there may be a delay of up to 48 hours between the receipt of a document and the date on which it is recorded in our information system and verifiable by you on Minerva. Taking this delay into consideration, please contact the Undergraduate Admissions Office only if your file remains incomplete 48 hours past the deadline.

9.9.2.3 Review of Applications by Admissions Committee

Once an application is complete, it is reviewed by the Admissions Committee. Without exception, every application to the McGill program is reviewed by at least one member of the Admissions Committee; the majority of applications are reviewed by two or three members. Committee members carefully review all documents submitted and evaluate the candidacy according to the Faculty's Admissions Policy, and in comparison to all other candidates in the applicant pool.

9.9.2.4 Decisions on Applications

The official decision of the Admissions Committee of the Faculty of Law is released by electronic mail and confirmed via the candidate's Minerva account. Decisions on individual applications cannot and will not be disclosed over the phone.

9.9.2.5 Application Fee

A non-refundable application fee of CAD\$100 is required for application to the B.C.L./LL.B. program. A credit card (Visa, MasterCard, or American Express only) is required to complete the online application form. McGill's highly secured e-payment service minimizes cardholder risk. Your credit card information is passed instantly to the Moneris payment gateway and is not stored at McGill. Moneris handles 80% of all credit card transactions processed in Canada. If you cannot pay by credit card, please contact the [Admissions Office at the Faculty of Law](#). The Faculty may issue a fee waiver to a candidate demonstrating significant financial need.

9.9.2.6 Categories of Applicants

Applicants to First Year (September entrance only)

- [section 9.9.2.6.1: University Applicants](#)
- [section 9.9.2.6.2: Mature Applicants](#)
- [section 9.9.2.6.3: CEGEP and Quebec French Baccalaureate \(Collège international Marie de France and Collège Stanislas\) Applicants](#)

Applicants to Upper Year (September entrance only)

- [section 9.9.2.6.4: Advanced Standing Students](#)
- [section 9.9.2.6.5: Transfer Students](#)

Applicants to Upper Year (September or January entrance)

- [section 9.9.2.6.7: Visiting Students \(Letters of Permission\)](#)
- [section 9.9.2.6.8: Incoming Exchange Students](#)
- [section 9.9.2.6.6: Comité des équivalences](#)
- [section 9.9.2.6.9: Special Students](#)

9.9.2.6.1 University Applicants

A University applicant to McGill's Faculty of Law must have completed a minimum of two years of full-time university studies (60 credits) at the time of registration. This category includes applicants who, at the time of registration, will have completed more than one year of university studies in addition to a Diploma of Collegial Studies (DCS).

Please note that, while candidates who have completed 60 credits are eligible to apply to the B.C.L./LL.B. program, the strength of the University applicant pool is such that the Faculty rarely admits candidates who will not have completed an undergraduate degree at the time of registration.

9.9.2.6.2 Mature Applicants

A Mature applicant is defined as an individual who is over 30 years of age at the time of registration and/or who has interrupted his or her formal education for a minimum of five years. Applicants who qualify as Mature must apply in this category. There is no predetermined number of Mature candidates admitted in a given year. A Mature applicant is normally expected to have completed CEGEP or two years (60 credits) of university studies. Mature applicants who are regarded as potentially admissible following a review of their file may be required to attend an interview.

Mature candidates who will have graduated with a Diploma of Collegial Studies (DCS) from a CEGEP during the same calendar year as that of registration must apply under the CEGEP category.

In addition to all official post-secondary transcripts, Mature applicants are required to submit a detailed résumé of their non-academic experience along with letters of reference from persons who are familiar with their academic potential. The candidate should seek to demonstrate his or her ability to meet the demands of law studies, to reason and analyze, and to express him/herself well both orally and in writing.



Note: The definition of a Mature applicant will be revised for the Fall 2014 entrance admissions cycle. Please visit www.mcgill.ca/law-admissions/undergraduates/admissions/deadlines for the update.

9.9.2.6.3 CEGEP and Quebec French Baccalaureate (Collège international Marie de France and Collège Stanislas) Applicants

Candidates may apply on the basis of a Diploma of Collegial Studies (DCS) from a CEGEP, or a Quebec French Baccalaureate (QFB). This category includes candidates who will have completed up to one year of university studies in addition to the DCS or QFB at the time of registration, and mature candidates who will have graduated with a DCS from a CEGEP or QFB during the same calendar year as that of registration.

Candidates who will have completed a French Baccalaureate or an International Baccalaureate Diploma outside the province of Quebec, must have completed a minimum of two years of full-time university studies (60 credits), at the time of registration, to be eligible to apply to our program.

- CEGEP/QFB candidates are not eligible to apply to the joint degree programs.
- CEGEP/QFB candidates who are regarded as potentially admissible following review of their file are required to attend an interview.

9.9.2.6.4 Advanced Standing Students

Applicants who hold a law degree from a Canadian or foreign university recognized by McGill must apply for admission to the B.C.L./LL.B. program under the Advanced Standing category, unless applying under the *Comité des équivalences* category (see [section 9.9.2.6.6: Comité des équivalences](#)). There are a limited number of places available for Advanced Standing applicants. Applications are evaluated using the same criteria as applications to the first year of the B.C.L./LL.B. program, with particular attention to performance in law studies.

Successful applicants must complete a minimum of 75 credits at McGill and undertake the integrated B.C.L./LL.B. program. It is not possible to obtain either the B.C.L. or the LL.B. degree on its own. The Associate Dean (Academic) determines equivalences for previous studies.



Note: Advanced Standing candidates applying from the French educational system must have obtained a license (*licence en droit*) in order to be eligible; candidates holding only a D.E.U.G. are not eligible.

9.9.2.6.5 Transfer Students

Students who have successfully completed at least one year of full-time studies in an undergraduate program at another **Canadian law faculty** may apply for admission as a Transfer student. There are a limited number of places available for Transfer students. Transfer applications are evaluated according to the criteria for admission to the first year of the B.C.L./LL.B. program. Particular attention is paid to performance in law studies and reasons for requesting a transfer.

Successful transfer applicants must complete a minimum of 75 credits at McGill. The Associate Dean (Academic) determines credit for previous studies. In most cases, Transfer students will be required to take the trans-systemic first-year courses—Contractual Obligations and Extra-Contractual Obligations/Torts—in order to meet McGill's degree requirements. Candidates will not receive credit for courses in obligations, contract, or tort taken during a first year completed at another faculty.

- Transfer students should forward transcripts of Winter term results as soon as they become available. Transfer applications cannot be evaluated without these results.
- Candidates who have completed a certificate in law are not eligible to apply under the Transfer category. These candidates must apply in the category of University, Mature, or CEGEP. Courses completed in a certificate in law program cannot be credited toward a McGill law degree.
- Students who are not in good standing or who have been required to withdraw at the end of their first year at another Canadian law faculty are not eligible to transfer to McGill.
- The online application is available from September 1 until November 1 for this category, even though the deadline for submitting an application is May 1. To submit a paper application under this category after November 1, please contact undergradadmissions.law@mcgill.ca.

9.9.2.6.6 Comité des équivalences

The Faculty accepts applications from candidates who hold a law degree from a Canadian or foreign university recognized by McGill and who are seeking to fulfil the requirements of the *Comité des équivalences* of the *Barreau du Québec* or of the *Chambre des notaires*, in order to practice in Quebec. Successful applicants must have the final decision of the *Comité des équivalences* or the *Chambre des notaires* in hand at the time of registration.

- This is a **non-degree program**: students wishing to obtain the B.C.L./LL.B. degrees should apply under the [section 9.9.2.6.4: Advanced Standing Students](#) category.
- The Faculty does not consider candidates applying to fulfil the requirements of the National Committee on Accreditation.
- Courses taken by *Comité des équivalences* / *Chambre des notaires* students cannot be credited toward a McGill law degree.

9.9.2.6.7 Visiting Students (Letters of Permission)

Students who have completed two years of studies at another law faculty who wish, for academic or personal reasons, to spend a term at McGill may be admitted as a Visiting Student. The Faculty endeavours to accommodate qualified students who are in good standing in their own faculties, where student numbers at McGill permit.

Students from other law faculties who would like to attend McGill as a Visiting Student must apply through the Admissions Office. Their application must include a Letter of Permission from their home university. The Assistant Dean (Student Life and Learning) makes decisions on these applications. Accepted students must arrange their academic program with the Assistant Dean (Student Life and Learning).

- Courses taken by Visiting Students cannot be credited toward a McGill law degree.

9.9.2.6.8 Incoming Exchange Students

Students registered in degree programs in law at universities that have an official exchange agreement with McGill University or with the Faculty of Law may apply as Exchange students. In addition, McGill participates in a number of exchange programs through CREPUQ (*la Conférence des Recteurs et Principaux des Universités du Québec*). [McGill's exchange partners](#) are listed on McGill University's website.

Students participating in an exchange must fill out the online application form. There is no application fee for these candidates.

Exchange students are selected and officially nominated by their home universities. Please note that home university internal application deadlines may vary. McGill considers applicants on an individual basis; the minimum entrance requirement is generally a cumulative B average or its equivalent. Decisions on applications for exchange are made by the Assistant Dean (Student Life and Learning). Admission decisions on exchange applications are final; there is no reconsideration process.

The Faculty has a limited number of places for Exchange students, and entrance into courses which have enrolment limits or require the permission of the instructor is not guaranteed.



Note: Courses taken by Exchange students cannot be credited toward a McGill law degree.

9.9.2.6.9 Special Students

The Faculty will exceptionally permit a limited number of candidates not actively pursuing a law degree to apply as Special Students. Students registered in other universities, and candidates not actively pursuing a university degree, may apply to take certain courses within the Faculty.

Special Student status will be granted to applicants who provide compelling academic or professional reasons for taking law courses and who successfully demonstrate the capacity to undertake the requirements of the requested course(s). Status will be granted only where sufficient course space is available.

Special Students are limited to a maximum of 6 credits per term, and to 12 credits in total.

Important information about this category:

- McGill students registered in a faculty other than law, who, for exceptional reasons related to their program of study, wish to enrol in a Faculty of Law course, must obtain the permission of the Associate Dean (Academic) and the course instructor. Such students need not fill out the online application. The form “Application to register for law courses for McGill students” is available on the [Law Student Affairs Office](#) website.
- Students registered in other Quebec universities who wish to take certain courses within the Faculty must apply through [CREPUQ](#) (*la Conférence des Recteurs et Principaux des Universités du Québec*). Such students need not fill out the online application.
- Courses taken by Special Students will not be credited toward a McGill law degree.
- Students wishing to obtain a McGill law degree and students recently refused admission to a degree program in the Faculty of Law will not be admitted as Special Students.
- The Faculty does not consider Special Student applications from candidates seeking to fulfil the requirements of the National Committee on Accreditation.

The list of courses offered by the Faculty of Law is available from the Student Affairs Office website under [Current courses & registration](#).



Note: All mandatory undergraduate courses for the B.C.L./LL.B. program (see list below) and graduate courses (600 level) are **not** open to Special Students:

- Civil Law Property PRV1 144
- Constitutional Law PUB2 101D1/PUB2 101D2
- Contractual Obligations LAWG 100D1/LAWG 100D2
- Extra-Contractual Obligations LAWG 101D1/LAWG 101D2
- Foundations of Canadian Law PUB3 116
- Introductory Legal Research PRAC 147D1/PRAC 147D2
- Advanced Civil Law Obligations PROC 200
- Advanced Common Law Obligations PRV3 200
- Common Law Property PRV4 144
- Legal Ethics and Advocacy PRAC 155D1/PRAC 155D2
- Criminal Law PUB2 111
- Business Associations BUS2 365
- Judicial Institutions and Civil Procedure PROC 124

9.9.2.7 Application Deadlines for Law Undergraduate Programs

The online application is available at the beginning of September. Deadlines vary by category of admission. Applicants must take the time to identify the category in which they must apply. Applicants are responsible for ensuring that the online application is completed by the deadlines indicated below and that all supporting documents are uploaded via Minerva by the deadlines listed below. Applicants who are unable to upload their documents online may send them via post or courier, in which case the documents must be postmarked or delivered on or before their appropriate deadlines listed below.



Note: Where a deadline falls on a weekend or statutory holiday, the effective deadline will be the following business day.

Incomplete applications will not be circulated to the Admissions Committee.

Please refer to [section 9.9.2.6: Categories of Applicants](#) in order to determine which deadline applies to you.

Applicants to First Year (Fall 2014)	Online Application Deadlines	Supporting Document Deadlines
University	November 1, 2013	November 8, 2013
Mature	November 1, 2013	November 8, 2013
CEGEP/Baccalaureate (<i>Collège international Marie de France</i> and <i>Collège Stanislas</i>)	March 1, 2014	March 7, 2014
Applicants to Upper Years	Online Application Deadlines	Supporting Document Deadlines
Advanced Standing (Fall 2014)	November 1, 2013	January 15, 2014
Transfer (Fall 2014)	May 1, 2014	June 15, 2014
Comité des équivalences (Fall 2014 entrance)	May 1, 2014	July 1, 2014
Chambre des notaires (Fall 2014 entrance)	May 1, 2014	July 1, 2014
Special (Fall 2014 entrance)	August 1, 2014	August 8, 2014
Visiting (Fall 2014 and/or Winter 2015)	May 1, 2014	June 15, 2014
Incoming Exchange (Fall 2014 and/or Winter 2015)	May 1, 2014	June 15, 2014
Comité des équivalences (Winter 2014 entrance)	October 1, 2013	December 1, 2013
Chambre des notaires (Winter 2014 entrance)	October 1, 2013	December 1, 2013
Special (Winter 2014 entrance)	December 1, 2013	December 8, 2013

9.9.2.8 Application Supporting Documents

Applicants may, and are strongly encouraged to, upload supporting documents via Minerva the day after having completed the online application (after having received the acknowledgment notice via email). Not all documents may be uploaded via Minerva. See [section 9.9.2.8.1: Uploading supporting documents](#) below.

Supporting documents required for all categories of applicants (unless otherwise indicated):

- [section 9.9.2.8.3: Transcripts](#)
- [section 9.9.2.8.4: Personal Statement](#)
- [section 9.9.2.8.6: Résumé](#)
- [section 9.9.2.8.7: Letters of Reference](#)
- Letter of permission (Visiting students only)
- Final decision from the *Comité des équivalences* of the *Barreau du Québec* (*Comité des équivalences* applicants only)
- Final decision from the *Chambre des notaires* (*Chambre des notaires* applicants only)

The Admissions Office will obtain LSAT results directly from the Law School Admission Council for those candidates who have taken, or plan to take, the LSAT.

After completing the online application, candidates must ensure that required supporting documents are uploaded via Minerva (or, if necessary, mailed directly to the Admissions Office at the Faculty of Law). Documents sent by mail must be postmarked or delivered on or before the dates listed in [section 9.9.2.7: Application Deadlines for Law Undergraduate Programs](#). Documents sent by fax or email will not be accepted, unless specifically indicated in the instructions for document submission. See [section 9.9.2.8.7: Letters of Reference](#).

During peak periods (i.e., close to deadlines), the volume of document intake is extremely high (over 1400 applications yearly) and there may be a delay of up to 48 hours between the receipt of a document and the date on which it is recorded in our information system. Taking this delay into consideration, candidates should contact the Undergraduate Admissions Office only if their file remains incomplete 48 hours past the deadline for supporting documents.

Documents submitted to McGill University in support of an application to be admitted, including, but not limited to transcripts, diplomas, letters of reference, and test scores (in paper or electronic format), become the property of McGill University and will not be returned to the applicant or forwarded to another institution.

9.9.2.8.1 Uploading supporting documents

You are strongly encouraged to upload your supporting documents rather than mailing them. Uploading your documents saves you time, effort, and the expense of mailing transcripts and supporting documents to us. It prevents delays normally incurred in the processing of paper documentation, allows you to associate your documents with the correct application and requirement, and assures you that your documents have been received.

Documents that can be uploaded via Minerva	Number of uploads allowed
Unofficial transcripts	Updated version accepted
Personal statement	One
Resumé	Updated version accepted
Letter of extenuating circumstance (if applicable)	One
Part-time letter (if applicable)	One

Please see the instructions for [uploading supporting documents](#). Documents that have been successfully uploaded to an application do not need to be sent by mail.

9.9.2.8.2 Mailing supporting documents

Below is the address for supporting documents, if submitting in person, by mail, or courier:

Undergraduate Admissions Office
Faculty of Law
McGill University
New Chancellor Day Hall, Room 418
3644 Peel Street
Montreal, Quebec H3A 1W9
CANADA

Send your documents in as early as possible. The Admissions Committee only reviews files with complete supporting documents. Only required supporting documents will be added to your file. Please refrain from sending other items, as these will not be considered part of your admission file.

Inquiries about supporting documents should be directed to:

Telephone: 514-398-6602
Fax: 514-398-8453
Email: undergradadmissions.law@mcgill.ca
Website: www.mcgill.ca/law-admissions

9.9.2.8.3 Transcripts

Applicants must submit a complete academic record from all previous university studies, as well as subsequent transcripts that become available from the time of application until the applicant has received the Admissions Committee's final decision.

Applicants have three different ways to submit their transcripts:

Transcripts for studies undertaken in Quebec universities may be submitted electronically via the CREPUQ system. Applicants have to contact the registrar of their home university and ask for this arrangement.

Applicants may and are strongly encouraged to upload all their transcripts via Minerva. Transcripts received in this manner are considered unofficial. Applicants will only be asked for official transcripts (sent to us via the CREPUQ system or by mail in an envelope sealed by the registrar of the issuing institute) if and when offered admission to the program. Our offer of admission will be contingent upon the receipt and verification of these official documents. If you have uploaded unofficial transcripts, you are not required to submit official transcripts until we request them from you.

Page Orientation – Make sure that the scanned document orientation matches the original. For example, transcripts that are printed vertically (portrait) should be scanned so that they appear in the portrait format. Transcripts printed horizontally (landscape) should appear in landscape format.



Note: McGill University reserves the right to require official academic credentials at any time during the admissions process, and rescind any offer of admission made if discrepancies between unofficial and official transcript(s) are found.

If submitting official transcripts, to be considered official these must be submitted in an envelope sealed by the Office of the Registrar of the issuing institution.

- 1. CREPUQ transcripts:** Applicants need not submit paper-based official transcripts of studies undertaken in Quebec universities to the Admissions Office if these transcripts are submitted electronically via the CREPUQ system. Transcripts submitted via the CREPUQ system are considered official.
- 2. McGill transcripts:** Applicants need not submit official transcripts of studies at McGill University to the Admissions Office. The Admissions Office obtains these results directly from McGill's Enrolment Services. Applicants who participated in an exchange during their program at McGill must submit a transcript.
- 3. Exchange studies transcripts:** Applicants must submit transcripts for results in studies carried out while on exchange, unless the marks as well as the credits obtained are already included on transcripts issued by their home university. Exchange programs should be indicated in the University History form of the online application.
- 4. Transcripts not in French or English:** Transcripts in a language other than English or French must be accompanied by an English or French translation provided either by the school issuing the transcript or by a certified translator.
- 5. CEGEP transcripts (Permanent Code):** Applicants who are currently, or have been, enrolled at a CEGEP must provide their Permanent Code. Starting mid-October each year, McGill will obtain official CEGEP transcripts electronically from the Government of Quebec. The processing of applications for applicants who are currently, or have been, enrolled at a CEGEP will not take place until a valid Permanent Code is provided.

6. **Quebec French Baccalaureate:** Applicants in Quebec French Baccalaureate programs must submit official transcripts.
7. **Winter term transcripts for Transfer students:** Transfer students should forward the official transcript of their Winter term results as soon as they become available. Transfer applications cannot be evaluated without these results.
8. **Transcripts will not be returned:** Transcripts sent to McGill become the property of the University and will not be returned or forwarded to other institutions.
9. **Law School Data Assembly Service:** The Faculty of Law at McGill **does not receive** transcripts through the Law School Data Assembly Service.
10. **French or English language courses:** Applicants should report in the University History form (or the Quebec Collegial Studies form) of the online application any courses taken, outside a degree program, which would contribute to their language competency and submit a transcript or certificate of completion.

9.9.2.8.4 Personal Statement

Applicants must submit a brief essay referred to as a Personal Statement. The following is intended to assist in preparing this document.

What is the purpose of the Personal Statement?

Your Personal Statement allows the Admissions Committee to understand the factors that motivate you to pursue a legal education, the particular meaning that the study of law holds for you, and the reasons for your interest in our program. In addition, your Personal Statement shows the Admissions Committee your writing style, your ability to present your ideas in English and/or French, and your maturity and judgment as shown through your writing.

What is the Admissions Committee looking for in reading your Personal Statement?

Members of the Admissions Committee are interested in what you will bring to the study of law and to our learning community, and how you will benefit from the study of law. They look for indicators of intellectual curiosity, community engagement, political/social insight, leadership skills, ability to work with others, openness to diversity (cultural, linguistic, and otherwise), maturity, judgment, and potential for development through opportunity or adversity. On the latter, you may describe your experience as a member of a minority group, or factors that may have made access to a university education difficult. Also, if you are a Mature category applicant, you should discuss the relevance of your past experiences to your current motivation(s) for the study of law, and the reasons for doing so at this point in your life. Ultimately, and whatever your applicant category, the Personal Statement must be a product of your own reflection. We truly value a wide range of backgrounds, identities, and future aspirations. Whether you wish to become a practising lawyer or you have other ideas about your career path following a legal education, your application, and specifically your Personal Statement, should show thoughtful consideration of your reasons for studying law (at our Faculty in particular).

Practical tips

Before writing, reflect critically on your motivations, your interests, and your convictions, and their connection to our program. The Personal Statement should not be used as a vehicle for narrating or repeating your resumé. Bear in mind that you have a limited amount of writing space; make it count. Be authentic. Be yourself. Don't be afraid to be original, but don't overlook the importance of the substance. Finally, ensure that your Personal Statement follows our formatting guidelines and that it has grammatical integrity.

Format

The format of the Personal Statement must adhere to the following basic characteristics:

- Two pages in length (maximum)
- Single-spaced
- Arial or Times New Roman font
- 12-point font
- Margins of 1.25 inches
- Indicate your name and McGill ID (if available) at the top right corner of both pages

Re-application

Candidates who have applied to our Faculty in the past must submit a new Personal Statement with any new application. A Personal Statement submitted in respect of a previous application will not be considered.

9.9.2.8.5 Extenuating Circumstances

Serious medical or personal difficulties may have had an impact on an applicant's academic performance. If this is the case, the applicant should submit a separate letter and provide supporting documentation as appropriate. To be able to upload a letter of extenuating circumstances via Minerva, applicants must answer "Yes" to the question related to extenuating circumstances in the online application. As opposed to what is indicated in the online application, please note that the review of a file will not be delayed as the Faculty of Law has the same review process regardless of whether an applicant has extenuating circumstances or not.

9.9.2.8.5.1 Format

Indicate your name, McGill ID (indicated in the acknowledgment notice), and the subject of your letter "Extenuating circumstances" in the top right corner of each page.

9.9.2.8.6 Resumé

Applicants are required to submit a resumé highlighting their:

- academic background and achievements;
- work experience;

- volunteer and community work;
- extracurricular activities, sports, hobbies, and other significant interests.



Note: It is useful to the Admissions Committee if you indicate the number of hours worked during your studies, as well as the time commitment involved in your volunteer and community activities.

The resumé assists the Admissions Committee in its assessment of a candidate's academic strength, depth of involvement in extracurricular activities, leadership, and time management skills.

Re-application: Candidates who have applied to the Faculty of Law in previous years are required to submit an updated resumé.

9.9.2.8.6.1 Format

The resumé can be longer than one page. Please indicate your name and McGill ID (indicated in the acknowledgment notice) in the top right corner of each page.

9.9.2.8.7 Letters of Reference

Two (2) letters of reference are required.

Applicants who are students, or who have recently completed programs of study, are expected to provide academic references from current or recent professors or teachers who are familiar with their work. Applicants in the CEGEP and Quebec French Baccalaureate (*Collège international Marie de France* and *Collège Stanislas*) category are expected to submit two letters of reference from CEGEP or college professors.

Applicants who are unable to obtain academic references because they are no longer students should submit letters from individuals who are well placed to evaluate the applicant's academic abilities such as critical reading, research, and writing; these may be professional references, but ought to be from a person who is in a supervisory position vis-à-vis the applicant.

Personal references are not helpful.



Note: The Office for admission to the B.C.L./LL.B. program does not contact your referees to solicit their letters.

9.9.2.8.7.1 Requirements

The candidate **must send a copy of the Reference Letter Instructions [pdf] to the referees** to ensure that the letters of reference meet the formatting requirements set out by the Faculty's Admissions Office. The *Law Reference Letter Instructions* form is available under [Letters of reference](#).

Letters may be sent electronically by the referee via email.

- Letters sent by University Career Centres will also be accepted if stated that the letters are confidential.

If on paper, the sealed letter of reference may be given to the applicant directly or be mailed to the Law Admissions Office.

1. The Admissions Office does not accept letters of reference by fax or by telephone.
2. While two letters of reference are required, the file of a candidate who indicates three referees will be considered incomplete until all three letters of reference have been submitted to the Admissions Office. A candidate who indicates three referees must advise the [Faculty of Law Admissions Office](#) in **writing** if they subsequently decide that they would like their candidacy to be considered on the basis of two references.

9.9.2.8.8 Law School Admission Test (LSAT)

Applicants are not required to take the LSAT. However, if a candidate **has taken** or **will be taking** the LSAT, the score will be reviewed by the Admissions Committee. Applicants who have taken or will be taking the test **must** report the date(s) of sitting(s) and provide their LSAT identification number in the appropriate places on the application. They must do so irrespective of whether the LSAT may, in their own estimation, strengthen or weaken their candidacy.



Note: Candidates must advise the [Faculty of Law Admissions Office](#) in **writing** of any change regarding the registration to the LSAT when the change occurs after the submission of the application form. If the candidate is writing the LSAT, the file will be circulated for review by the Admissions Committee only when all pending LSAT results are received.

9.9.2.8.8.1 Consequences of Failure to Disclose

The Faculty of Law may revoke an offer of admission or cancel an application at any time for material misrepresentation, including omissions, in an application. Although the LSAT is not a mandatory element in an application for admission, every applicant who has taken or will be taking it must disclose their LSAT information and failure to do so is a material misrepresentation. The Admissions Office conducts random verifications for LSAT scores throughout the admissions process and a systematic verification with respect to candidates who receive an offer of admission. These verifications have, in the past, resulted in the revocation of offers of admission.

9.9.2.8.8.1.1 Why does the Faculty of Law not require the LSAT?

The Faculty of Law is a bilingual learning environment. We believe it would be disadvantageous to the significant proportion of applicants and admitted students who indicate French as a first language to require, as a matter of eligibility, a test that is offered only in English.

9.9.2.8.8.1.2 Who should take the LSAT?

While it is not required, it may nevertheless be advisable for many candidates to consider writing the LSAT. Admission to McGill's Law program is highly competitive; there are roughly eight times as many applicants as there are available places in the first-year class. Accordingly, candidates are strongly

encouraged to apply for admission to a number of faculties of law. Almost all faculties of law outside Quebec (with the exception of the Civil Law program at the University of Ottawa and the French Common Law programs at the University of Moncton and the University of Ottawa) require the LSAT.

The quality of McGill's applicant pool is exceptionally strong. Among admitted students, the average entering GPA is a 3.7 on a 4.0 scale (about an 84% average). Applicants with academic records below this average GPA or percentile are encouraged to consider writing the LSAT.

9.9.2.8.8.1.3 When should I write the LSAT?

Candidates should write the LSAT by December of the year prior to the year for which they seek admission at the latest. Candidates who register for the December LSAT should be aware that consideration of their file will be delayed until receipt of the score.

Applications from candidates who register for the February LSAT of the year for which they seek admission will be reviewed by the Admissions Committee only when all required elements, including the February LSAT score, are received. Given the passing of several months since the application deadline, candidates who register for the February LSAT risk that, by the time the Committee reviews their application, there will no longer be a place to offer even if the Committee wishes to admit.

9.9.2.8.8.1.4 Processing of LSAT Results

The Admissions Office obtains test results directly from the Law School Admission Council (LSAC). Applicants whose service with the Law School Admissions Council has expired must reactivate their service in order to enable the Admissions Office to obtain their LSAT score.

McGill University does not administer the LSAT. Applicants who wish to register for the LSAT must do so directly with [Law School Admission Council](#).

For additional information, see the [LSAT section](#) of our FAQ.

9.10 Exchange and Study Abroad Options for Law Students

For more information, see *Field Studies* under *Faculties & Schools* in this publication.

The Faculty of Law has a strong exchange program with partnerships with leading institutions around the world. Approximately 25% of undergraduate law students participate in a study abroad program. If you are a McGill law student who is interested in participating in an exchange program, consult the Student Affairs Office website: www.mcgill.ca/law-studies/information/exchange. If you are a law student from another institution who is interested in coming to McGill as part of an exchange program, see the www.mcgill.ca/law-studies/information/exchange/#FROMABROAD section on the web.

The Faculty of Law also offers students the opportunity to participate in credited summer Human Rights Internships. These internships are coordinated through the Centre for Human Rights and Legal Pluralism (CHRLP) and count for course credit. Details about the Human Rights Internships can be found at www.mcgill.ca/humanrights/clinical/internships. Please visit www.mcgill.ca/cdo/careerresources/hrinternships for additional information on these opportunities and others.

9.11 Student Activities and Services

The Faculty of Law offers a wide variety of extracurricular activities for students. All are encouraged to participate. Many of these are organized within the Faculty under the auspices of the Law Students Association (LSA). The LSA website provides details regarding various student clubs: www.lsa-aed.ca. For more information on extracurricular activities and organizations, please visit www.mcgill.ca/law.

9.11.1 Law Students Association/Association des étudiants en droit

The Law Students Association (LSA)/*Association des étudiants en droit* (AED), founded before World War I and known for many years as the Law Undergraduate Society, is composed of all students in the Faculty of Law pursuing the B.C.L./ LL.B. degrees. The LSA Council, which represents the views and interests of the students in the Faculty, is made up of nine executive members, the class presidents, the four Faculty Council student members-at-large, and the Law Senator(s).

In addition to representing its constituents within the Faculty, the LSA/AED is responsible for promoting law student interests outside the Faculty in conjunction with other university, provincial, and national student organizations. The LSA/AED oversees a number of functions and activities affecting the students of the Faculty. Through its various committees, the LSA/AED oversees social events, sports (including participation in the Canada Law Games), orientation activities, the planning of Graduation activities, the production of the Yearbook, and the Computer Resources for students.

The LSA/AED also actively promotes social justice and advances the causes of minority groups within the Faculty.

The LSA/AED offices are located in the basement of New Chancellor Day Hall. For further information, call 514-398-6966.

You will find below a list of active student organizations. For more information about student activities please visit the LSA/AED website at www.lsa-aed.ca.

- Aboriginal Law Student Association
- Amnesty International Legal Network Action Group
- Asian Pacific Law Association McGill
- Black Law Students' Association of Canada
- Disability and the Law
- Environmental Law Association of McGill/Association de droit de l'environnement de McGill
- Graduate Law Students Association

Human Rights Working Group
 International Law Society
 Labour and Employment Law Society
 Latin American Law Students' Association (LALSA)
 LEGALE McGill OutLaw (Les étudiants Gais et Lesbiennes de McGill)
 McGill Business Law Association
 McGill Entertainment Law Students Association (MELSA)
 McGill Health Law Association
 McGill Jewish Law Students Association
 McGill Law Women's Caucus
 McGill Radical Law Community/Communauté juridique radicale de McGill
 Phi Delta Phi
 Pro Bono Students Canada/Program Canadien pro bono pour étudiants et étudiantes
 Rethinking Intellectual Property Policy (RIPP)
 Student Animal Legal Defence Fund - McGill Chapter
 Thomas More Society

9.11.2 Law Student Services

9.11.2.1 LSA Computer Advisory Committee

The Law Students' Association (LSA) Computer Advisory Committee administers the student-funded Computer Labs at the Faculty of Law in conjunction with the Faculty. The Committee is composed of three student representatives (including a member of the LSA executive) and two Faculty members. The Committee provides for the technical support, maintenance, upgrading, and printing services of the LSA Computer Labs. The Committee is also responsible for the Faculty's email and electronic notice systems. The Committee strives to maintain and improve student computer services at the lowest cost.

9.11.2.2 Legal Information Clinic at McGill

The Legal Information Clinic at McGill is a student-run service for the McGill community. Law students provide legal information within the limits of the Quebec Bar Act. Only students who have completed first year are eligible to volunteer. For further information, call 514-398-6792 or visit the clinic offices in Rooms B-20 and B-21, University Centre, 3480 McTavish Street.

9.11.2.3 *Quid Novi*

Quid Novi is the weekly newspaper of the McGill Faculty of Law, and is published and financially supported by students. It covers events and legal issues, both inside and outside the Faculty. Content ranges from wit and satire to investigative journalism, from poetry to front-page news stories, and from political commentary to humorous contests.

9.11.2.4 Skit Nite

Skit Nite is an annual theatrical event produced and performed by law students. Comprising humorous vignettes of law school life and musical performances, the show has become the highlight of the Faculty social calendar. The primary purpose of the evening, however, is to raise money for worthy local causes. Skit Nite donates over \$20,000 every year to several Montreal charities.

9.11.3 Competitive Moot Program

The Competitive Moot Program allows interested students to participate in a variety of mooting competitions under the supervision of Faculty members and practitioners. McGill teams regularly participate in the Philip C. Jessup International Law Moot, the Tribunal-École Pierre-Basile Mignault, the Concours Charles Rousseau, the Harold Fox Moot (IP), the Gale Cup Moot, the Laskin Moot Court Competition, the Corporate Securities Moot Competition, the Wilson Moot, the Kawaskimhon Aboriginal Moot, the Willem C. Vis International Commercial Arbitration Moot, and the Sopinka Cup. The Faculty has frequently won several of these competitions. In addition, every year, four students compete in the Bar Prize Moot with prizes awarded by the Bars of Montreal and Quebec.

The following funds which are administered by the Dean of the Faculty of Law, provide financial support to the competitive mooting teams representing McGill:

- The John G. Ahern, Q.C. Memorial Mooting Fund was established by the law firm of Ahern, Nuss and Drymer in 1979, in the name and memory of its distinguished founder (B.C.L. 1918), Bâtonnier of the Bar of Montreal and Quebec in 1955–56, and renowned and respected advocate pleader throughout his long career.
- The S. Leon Mendelsohn Mooting Fund was established by the partners of Mendelsohn in honour of their esteemed founder (B.C.L. 1924).
- The Richard and Hilda Golick Mooting Sponsorship, established in 1994 and funded by the proceeds from the Law and You Seminars, also provides financial assistance to students participating in competitive mooting.
- The McCarthy Tétrault Foundation donation to the Faculty in support of competitive mooting.

9.11.4 Legal Methodology Teaching Groups

Third and fourth year students may apply to the Legal Methodology Program Director, following a call for applications in the Winter term, to serve as student tutors for the Legal Methodology Program in the following year. The first and second year students are divided into groups for learning and applying research skills, and practising legal writing and advocacy; student tutors participate in designing assignments, commenting on their students' work, and judging moots. Student tutors enrol in the teaching course attached to the Program, which is supervised by the Director, and receive academic credits for their participation.

9.11.5 Law Journals

The Faculty of Law at McGill University publishes several law journals including the *McGill Law Journal* (MLJ), the *McGill International Journal of Sustainable Development Law and Policy* (JSDLP), and the *McGill Journal of Law and Health* (MJLH).

9.11.5.1 McGill Law Journal/Revue de droit de McGill

The *McGill Law Journal* (MLJ), founded in 1952, is a professional journal published by students of the Faculty of Law. Its purpose is to promote the study of the law in Canada and to help in the understanding of the civil law and common law systems. It publishes articles in both French and English.

The Journal also publishes the *Canadian Guide to Legal Citation*, which has been adopted by many leading legal periodicals in several countries. Each year, it also organizes the McGill Law Journal Alumni Lecture. The McGill Law Journal Trust funds both these activities.

9.11.5.2 McGill International Journal of Sustainable Development Law and Policy/Revue internationale de droit et politique du développement durable de McGill

The *McGill International Journal of Sustainable Development Law and Policy* (JSDLP) provides a forum in which the world's leading scholars exchange ideas on the intersection between law, development, the environment, economics, and society. Over the past quarter-century, determining how to enrich our world in a more sustainable fashion has become an imperative, especially given the impact of development on the environment and human rights. Despite this pressing need for new ideas, there are few outlets for informed and focused commentary on sustainability, particularly in Canada. In response to this void, students at the Faculty of Law of McGill University have established the JSDLP, a student-run, peer-reviewed academic journal.

9.11.5.3 McGill Journal of Law and Health/Revue de droit & santé de McGill

The *McGill Journal of Law and Health* (MJLH), formerly the *McGill Health Law Publication* (MHL), is a student-run, online endeavour sponsored by the Faculty of Law at McGill University. The MJLH is an interdisciplinary project consisting of a peer-reviewed anthology featuring scholarly contributions by renowned academics and practitioners alongside an organic online database – a resource of recent developments in the field of health law. Both components aim to inform the vital public debate surrounding health, public policy, and ethics and to critically explore the nexus of health and law in a transsystemic framework. The MJLH is an open-access journal that is available on our website <http://mjlh.mcgill.ca> free of charge, and is available on Quicklaw, WestlaweCarswell, and HeinOnline.

9.12 Scholarships, Prizes, and Student Aid for Undergraduate Students

A complete list of undergraduate scholarships, bursaries, and other forms of financial assistance administered by the Scholarships and Student Aid Office (SSAO) is available in the *Undergraduate Scholarships and Awards Calendar*, which can be accessed at www.mcgill.ca/students/courses/calendars.

Information and regulations governing entrance scholarships may be viewed at www.mcgill.ca/studentaid/scholarships/prospective/regulation.

Information and regulations pertaining to in-course awards are available at www.mcgill.ca/studentaid/scholarships/current/eligibility.

Information regarding the application process for discretionary prizes and scholarships awarded by the Faculty of Law Prizes and Scholarships Committee are available at www.mcgill.ca/law-studies/information/discretionary.

For information on bursaries and loans, students should consult www.mcgill.ca/studentaid/awards.

Details on the Work Study program are available at www.mcgill.ca/studentaid/workstudy.

9.13 Undergraduate Program Requirements

The McGill B.C.L./LL.B Program

[section 9.13.1: Bachelor of Civil Law \(B.C.L.\) and Bachelor of Laws \(LL.B.\) \(105 credits\)](#)

[section 9.13.2: Bachelor of Civil Law \(B.C.L.\) and Bachelor of Laws \(LL.B.\) with Minor \(123 credits\)](#)

[section 9.13.3: B.C.L. and LL.B. with Major Concentration; Commercial Negotiation and Dispute Resolution \(123 credits\)](#)

[section 9.13.4: B.C.L. and LL.B. with Major Concentration; International Human Rights and Development \(123 credits\)](#)

[section 9.13.5: Bachelor of Civil Law \(B.C.L.\) and Bachelor of Laws \(LL.B.\) with Honours \(120 credits\)](#)

The McGill B.C.L./LL.B Program

section 9.13.6: Joint M.B.A. with B.C.L. and LL.B. (144 credits)

section 9.13.7: Joint M.S.W. with B.C.L. and LL.B. (132 credits)

9.13.1 Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) (105 credits)

At the Faculty of Law, students pursue an integrated program of studies which qualifies them for the Bar Admission Programs in all Canadian provinces. The Faculty grants concurrently both its degrees - Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) - to candidates who have successfully completed 105 credits.

Students should consult the Faculty website for updates: <http://www.mcgill.ca/law-studies/>.

Required Courses (53 credits)

First Year

The following 29 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(2.5)	Extra-Contractual Obligations/Torts
LAWG 101D2	(2.5)	Extra-Contractual Obligations/Torts
PRAC 147D1	(1.5)	Introductory Legal Research
PRAC 147D2	(1.5)	Introductory Legal Research
PRV1 144D1	(2.5)	Civil Law Property
PRV1 144D2	(2.5)	Civil Law Property
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

Note: In the Winter term of the first year, students may also take one of the following courses: required course PUB2 111 (Criminal Law), or complementary courses LAWG 273 (Family Law), PUB2 105 (Public International Law), or PUB2 400 (The Administrative Process).

Second Year

The following 13 credits of courses may be taken only in the second year:

PRAC 155D1	(1.5)	Legal Ethics and Advocacy
PRAC 155D2	(1.5)	Legal Ethics and Advocacy
PROC 200	(3)	Advanced Civil Law Obligations
PRV3 200	(3)	Advanced Common Law Obligations
PRV4 144	(4)	Common Law Property

Any Year

The following 11 credits of courses may be taken in any year:

BUS2 365	(4)	Business Associations
PROC 124	(4)	Judicial Institutions and Civil Procedure
PUB2 111	(3)	Criminal Law

Complementary Courses (9 credits)

Complementary Civil Law Courses:

Students must take at least 3 credits from the following list of advanced civil law courses and from the trans-systemic course list:

BUS2 561	(3)	Insurance
LEEL 570	(3)	Employment Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV1 555	(3)	Successions
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Complementary Common Law Courses:

Students must take at least 3 credits from the following list of advanced common law courses and from the trans-systemic course list:

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts
PRV4 556	(3)	Wills and Estates
PRV5 582	(2)	Advanced Torts

The following trans-systemic courses count for half their credit weight in each of the advanced common law and advanced civil law course lists above:

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Social Diversity and Human Rights Courses:

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law

PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Elective Courses (43 credits)

Students must take other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 105-credit degree requirement. At least 3 of the 43 credits must come from the list below.

Complementary - Law, Principles of Canadian Administrative Law

Students must take at least 3 credits from the following courses:

BUS1 432	(3)	Bankruptcy
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 403	(2)	Municipal Law
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law
WRIT 433D1*	(3)	Legal Clinic 1
WRIT 433D2*	(3)	Legal Clinic 1
WRIT 434*	(3)	Legal Clinic 2
WRIT 435*	(3)	Legal Clinic 3
WRIT 440*	(6)	Clerkship A
WRIT 440D1*	(3)	Clerkship A
WRIT 440D2*	(3)	Clerkship A
WRIT 441*	(3)	Clerkship B

* With the approval of the Associate Dean Academic, in consultation with the Faculty Supervisors, on a case-by-case basis.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- b) writing a term essay under independent supervision, for credit, within the Faculty of Law;
- c) writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

9.13.2 Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) with Minor (123 credits)

The B.C.L. and LL.B. with Minor is open to all students enrolled in the Faculty of Law and allows them to graduate with a minor concentration offered by McGill's Faculty of Arts or a minor offered by McGill's Faculty of Science.

Law students should consult the Faculty of Arts and Faculty of Science sections of the Undergraduate Programs, Courses and University Regulations publication available at <http://www.mcgill.ca/study/> to determine the requirements for individual minor concentrations and minors.

B.C.L. and LL.B. with Minor

In addition to the 105 credits needed for the B.C.L. and LL.B. program, students complete 18 further credits toward a minor program. Since Science minors are typically 24 credits and Arts minor concentrations are typically 18 credits, Law students will be allowed to count 6 credits of a 24-credit Science minor toward their Law degree as non-Law credits.

9.13.3 B.C.L. and LL.B. with Major Concentration; Commercial Negotiation and Dispute Resolution (123 credits)

The B.C.L. and LL.B. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in Commercial Negotiation and Dispute Resolution is articulated around a synthetic skill set driven by the transversal theme "Commercial Negotiation and Dispute Resolution" and is inspired by an interdisciplinary approach.

Law and non-law courses are combined with the practical experience acquired during an internship. The required writing of an independent essay allows students to integrate the various academic and clinical strands of the major program, and, more broadly, of legal learning.

The Major concentration is a 36-credit program. Students are permitted to include within their 105 credits for the B.C.L. and LL.B. 18 credits toward their Major concentration. The remaining 18 credits needed for the Major concentration are added on top of the 105 credits for the Law degrees for a total of 123 credits.

Required Courses (6 credits)

WRIT 300D1	(3)	Major Internship
WRIT 300D2	(3)	Major Internship

Complementary Courses (30 credits)

Essay Course (3 credits)

3 credits from:

WRIT 491	(3)	Term Essay 1
WRIT 492	(3)	Term Essay 2
WRIT 493	(3)	Term Essay 3
WRIT 494	(3)	Term Essay 4
WRIT 495	(3)	Term Essay 5
WRIT 496	(3)	Term Essay 6

The essay must be written on a subject related to Commercial Negotiation and Dispute Resolution. The essay is to be written in the fourth year of the program in order to allow the student to integrate the various academic and clinical strands of the program. The topic must be approved by the Associate Dean (Academic).

Law and Non-Law Courses (27 credits)

27 credits from the following lists of law and non-law courses of which at least 6 credits must be non-law courses.

Law Courses

15-21 credits of law courses selected from:

BUS1 432	(3)	Bankruptcy
BUS2 503	(3)	Business Organizations
BUS2 504	(3)	Securities Regulation
BUS2 505	(3)	Corporate Finance

CMPL 508	(2)	Research Seminar 1
CMPL 509	(2)	Research Seminar 2
CMPL 515	(3)	International Carriage of Goods by Sea
CMPL 521	(3)	Trade Regulation
CMPL 524	(3)	Entertainment Law
CMPL 533	(3)	Resolution of International Disputes
CMPL 543	(3)	Law and Practice of International Trade
CMPL 568	(3)	Extrajudicial Dispute Resolution
CMPL 574	(3)	Government Control Of Business
LAWG 200	(3)	Commercial Law
LAWG 400	(4)	Secured Transactions
LAWG 500	(3)	Complex Legal Transactions 1
LAWG 511	(1)	Specialized Topics in Law 1
LAWG 512	(1)	Specialized Topics in Law 2
LAWG 513	(2)	Specialized Topics in Law 3
LAWG 514	(2)	Specialized Topics in Law 4
LAWG 515	(2)	Specialized Topics in Law 5
LAWG 516	(3)	Specialized Topics in Law 6
LAWG 517	(3)	Specialized Topics in Law 7
LAWG 518	(3)	Specialized Topics in Law 8
LAWG 521	(3)	Student-Initiated Seminar 1
LAWG 522	(3)	Student-Initiated Seminar 2
LEEL 369	(3)	Labour Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV5 483	(3)	Consumer Law
PUB2 517	(3)	Corporate Taxation

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and LL.B. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and LL.B. Students who take 12 non-law credits as part of their Major concentration may not count additional non-law credits toward their B.C.L. and LL.B.

Other non-law courses related to Commercial Negotiation and Dispute Resolution not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Economics

ECON 223	(3)	Political Economy of Trade Policy
ECON 305	(3)	Industrial Organization
ECON 310	(3)	Introduction to Behavioural Economics
ECON 546	(3)	Game Theory

Non-Law Courses - Management

BUSA 395	(3)	Managing in Europe
BUSA 481	(3)	Managing in North America
BUSA 493	(3)	Global Economic Competitiveness
INDR 459	(3)	International Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 496	(3)	Collective Bargaining
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 293	(3)	Managerial Economics
MGCR 382	(3)	International Business
MGCR 423	(3)	Organizational Policy
MGPO 383	(3)	International Business Policy
MGPO 440	(3)	Strategies for Sustainability
MGPO 445	(3)	Industry Analysis & Competitive Strategy
MGPO 450	(3)	Ethics in Management
MGPO 460	(3)	Managing Innovation
MGPO 468	(3)	Managing Organizational Politics
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization
MGPO 567	(3)	Business in Society
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 420	(3)	Managing Organizational Teams

Non-Law Courses - Political Science

POLI 243	(3)	International Politics of Economic Relations

9.13.4 B.C.L. and LL.B. with Major Concentration; International Human Rights and Development (123 credits)

The B.C.L. and LL.B. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in International Human Rights and Development is articulated around a synthetic skill-set driven by the transversal theme "International Human Rights and Development" and inspired by an interdisciplinary approach.

Law and non-law courses are combined with the practical experience acquired during an internship. The required writing of an independent essay allows students to integrate the various academic and clinical strands of the major program, and, more broadly, of legal learning.

The Major concentration is a 36-credit program. Students are permitted to include within their 105 credits for the B.C.L. and LL.B. 18 credits toward their Major concentration. The remaining 18 credits needed for the Major concentration are added on top of the 105 credits for the Law degrees for a total of 123 credits.

Required Courses (6 credits)

WRIT 300D1	(3)	Major Internship
WRIT 300D2	(3)	Major Internship

Complementary Courses (30 credits)

Essay Course (3 credits)

3 credits from:

WRIT 491	(3)	Term Essay 1

WRIT 492	(3)	Term Essay 2
WRIT 493	(3)	Term Essay 3
WRIT 494	(3)	Term Essay 4
WRIT 495	(3)	Term Essay 5
WRIT 496	(3)	Term Essay 6

The essay must be written on a subject related to International Human Rights and Development. The essay is to be written in the fourth year of the program, in order to allow the student to integrate the various academic and clinical strands of the program. The topic must be approved by the Associate Dean (Academic).

Law and Non-Law Courses (27 credits)

27 credits from the following lists of law and non-law courses of which at least 6 credits must be from non-law courses.

Law Courses

15-21 credits of law courses selected from:

CMPL 508	(2)	Research Seminar 1
CMPL 509	(2)	Research Seminar 2
CMPL 516	(3)	International Development Law
CMPL 521	(3)	Trade Regulation
CMPL 533	(3)	Resolution of International Disputes
CMPL 543	(3)	Law and Practice of International Trade
CMPL 546	(3)	International Environmental Law and Politics
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
LAWG 503	(3)	Inter-American Human Rights
LAWG 511	(1)	Specialized Topics in Law 1
LAWG 512	(1)	Specialized Topics in Law 2
LAWG 513	(2)	Specialized Topics in Law 3
LAWG 514	(2)	Specialized Topics in Law 4
LAWG 515	(2)	Specialized Topics in Law 5
LAWG 516	(3)	Specialized Topics in Law 6
LAWG 517	(3)	Specialized Topics in Law 7
LAWG 518	(3)	Specialized Topics in Law 8
LAWG 521	(3)	Student-Initiated Seminar 1
LAWG 522	(3)	Student-Initiated Seminar 2
PUB2 105	(3)	Public International Law
PUB2 502	(3)	International Criminal Law
PUB2 503	(3)	Comparative Federalism
PUB2 551	(3)	Immigration and Refugee Law

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and LL.B. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and LL.B. Students who take 12 non-law credits as part of their major concentration may not count additional non-law credits towards their B.C.L. and LL.B.

Other non-law courses related to International Human Rights and Development not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 342	(3)	Gender, Inequality and the State

Non-Law Courses - Economics

ECON 223	(3)	Political Economy of Trade Policy
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 316	(3)	The Underground Economy
ECON 426	(3)	Labour Economics

Non-Law Courses - Geography

GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

Non-Law Courses - International Development

INTD 200	(3)	Introduction to International Development

Non-Law Courses - Management

MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
ORGB 380	(3)	Cross Cultural Management

Non-Law Courses - Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 362	(3)	Political Theory and International Relations
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Non-Law Courses - Sociology

SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change

SOCI 370	(3)	Sociology: Gender and Development
SOCI 484	(3)	Emerging Democratic States
SOCI 519	(3)	Gender and Globalization
SOCI 550	(3)	Developing Societies

9.13.5 Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) with Honours (120 credits)

The B.C.L and LL.B. with Honours program is open to students who have completed four terms of study at the Faculty of Law and who, during that time, have maintained a GPA of 3.0. Students must complete 15 credits of Honours Thesis courses in addition to the 105 credits required in the B.C.L and LL.B. program. Conditional upon submission and approval of an Honours Thesis, students will be granted a B.C.L. and LL.B. with Honours.

Required - Honours Thesis Courses (15 credits)

WRIT 450	(3)	Honours Thesis 1
WRIT 451	(6)	Honours Thesis 2
WRIT 452	(6)	Honours Thesis 3

9.13.6 Joint M.B.A. with B.C.L. and LL.B. (144 credits)

A joint Master of Business Administration (M.B.A.) with integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) program is offered by the Desautels Faculty of Management and the Faculty of Law. This joint program provides students the opportunity to pursue legal and administrative aspects of business. Successful candidates graduate with M.B.A., B.C.L., and LL.B. degrees, a trio that prepares them for careers in private and public enterprise, as well as government service.

Students complete 51 credits for the M.B.A. degree and 93 credits for the integrated B.C.L. and LL.B. degrees for a total of 144 credits.

Required Courses - Management (24 credits)

BUSA 614	(3)	Seminar in Law and Management
MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip

Complementary Courses - Management (27 credits)

Students complete 27 complementary credits toward the M.B.A. degree selected as follows:

15 credits toward one of the five concentrations of the M.B.A. degree: Finance, Global Leadership, Marketing, Technology and Innovation Management, or General Management.

12 additional credits at the 500 level or above offered by the Desautels Faculty of Management to complete the 27 credits of complementary courses.

Note: Students may have to follow one or all components of the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A. depending on their academic background.

Required Courses - Law (59 credits)

BUS2 365	(4)	Business Associations
LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(2.5)	Extra-Contractual Obligations/Torts
LAWG 101D2	(2.5)	Extra-Contractual Obligations/Torts
PRAC 147D1	(1.5)	Introductory Legal Research

PRAC 147D2	(1.5)	Introductory Legal Research
PRAC 155D1	(1.5)	Legal Ethics and Advocacy
PRAC 155D2	(1.5)	Legal Ethics and Advocacy
PROC 124D1	(2)	Judicial Institutions and Civil Procedure
PROC 124D2	(2)	Judicial Institutions and Civil Procedure
PROC 200	(3)	Advanced Civil Law Obligations
PRV1 144D1	(2.5)	Civil Law Property
PRV1 144D2	(2.5)	Civil Law Property
PRV3 200	(3)	Advanced Common Law Obligations
PRV4 144	(4)	Common Law Property
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB2 111	(3)	Criminal Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations
WRIT 400D1	(3)	Senior Essay
WRIT 400D2	(3)	Senior Essay

Complementary Courses - Law (34 credits)

Students complete 34 credits of complementary courses toward the B.C.L. and LL.B. degrees.

Complementary Courses - Law, Civil Law (3 credits)

Students complete 3 credits of civil law courses. The following courses count for their full credit weight as civil law:

BUS2 561	(3)	Insurance
LEEL 570	(3)	Employment Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV1 555	(3)	Successions
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Complementary Courses - Law, Common Law (3 credits)

Students complete 3 credits of common law courses. The following courses count for their full credit weight as common law:

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts
PRV4 556	(3)	Wills and Estates
PRV5 582	(2)	Advanced Torts

Complementary Course - Law, Civil & Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits:

CMPL 522	(3)	Medical Liability

LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary Courses - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law (3 credits)

BUS1 432	(3)	Bankruptcy
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action

PUB2 403	(2)	Municipal Law
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law
WRIT 433D1	(3)	Legal Clinic 1
WRIT 433D2	(3)	Legal Clinic 1
WRIT 434	(3)	Legal Clinic 2
WRIT 435	(3)	Legal Clinic 3
WRIT 440	(6)	Clerkship A
WRIT 440D1	(3)	Clerkship A
WRIT 440D2	(3)	Clerkship A
WRIT 441	(3)	Clerkship B

Complementary Courses - Law, Other Courses (22 credits)

Students select the remaining 22 credits from among Faculty of Law offerings.

9.13.7 Joint M.S.W. with B.C.L. and LL.B. (132 credits)

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and LL.B. degrees for a total of 132 credits.

Required Courses - Social Work (30 credits)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3
SWRK 691	(12)	Social Work / Law Independent Study Project

Complementary Courses - Social Work (15 credits)

Students complete 15 credits of SWRK 500- or 600-level courses. Up to 6 graduate-level credits may be taken outside the School of Social Work with the approval of the Academic Adviser.

Required Courses - Law (53 credits)

BUS2 365	(4)	Business Associations
LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(2.5)	Extra-Contractual Obligations/Torts
LAWG 101D2	(2.5)	Extra-Contractual Obligations/Torts
PRAC 147D1	(1.5)	Introductory Legal Research
PRAC 147D2	(1.5)	Introductory Legal Research
PRAC 155D1	(1.5)	Legal Ethics and Advocacy
PRAC 155D2	(1.5)	Legal Ethics and Advocacy
PROC 124D1	(2)	Judicial Institutions and Civil Procedure
PROC 124D2	(2)	Judicial Institutions and Civil Procedure

PROC 200	(3)	Advanced Civil Law Obligations
PRV1 144D1	(2.5)	Civil Law Property
PRV1 144D2	(2.5)	Civil Law Property
PRV3 200	(3)	Advanced Common Law Obligations
PRV4 144	(4)	Common Law Property
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB2 111	(3)	Criminal Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

Complementary Courses - Law (34 credits)

Students complete 34 credits of complementary courses toward the B.C.L. and LL.B. degrees.

Complementary Courses - Law, Civil Law (3 credits)

Students complete 3 credits of civil law courses. The following courses count for their full credit weight as civil law:

BUS2 561	(3)	Insurance
LEEL 570	(3)	Employment Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV1 555	(3)	Successions
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Complementary Courses - Law, Common Law (3 credits)

Students complete 3 credits of common law courses. The following courses count for their full credit weight as common law:

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts
PRV4 556	(3)	Wills and Estates
PRV5 582	(2)	Advanced Torts

Complementary Courses - Law, Civil & Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits:

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LEEL 570	(3)	Employment Law

PRV5 483 (3) Consumer Law

Complementary Courses - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary Courses - Law, Principles of Canadian Administrative Law (3 credits)

BUS1 432	(3)	Bankruptcy
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 403	(2)	Municipal Law
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law
WRIT 433D1*	(3)	Legal Clinic 1
WRIT 433D2*	(3)	Legal Clinic 1
WRIT 434*	(3)	Legal Clinic 2

WRIT 435*	(3)	Legal Clinic 3
WRIT 440*	(6)	Clerkship A
WRIT 440D1*	(3)	Clerkship A
WRIT 440D2*	(3)	Clerkship A
WRIT 441*	(3)	Clerkship B

* With approval of the Associate Dean Academic, in consultation with the Faculty Supervisors, on a case-by-case basis.

Complementary Courses - Law, Other Courses (22 credits)

Students select the remaining 22 credits from among Faculty of Law offerings.

9.14 Undergraduate Selection of Course Concentrations

Several courses of instruction may be grouped because they treat a common subject matter or theme. The following unofficial groupings of courses regularly offered in the Faculty are intended to assist students desiring to specialize in selecting elective courses. They do not represent any academic policy decision by the Faculty as to the appropriate characterization of individual offerings. Moreover, some courses appear in more than one grouping. In all cases, reference should be made to the course description.

1. Basic Private Law

Civil Law Property (PRV1 144D1 / PRV1 144D2)

Common Law Property (PRV4 144)

Contractual Obligations (LAWG 100D1 / LAWG 100D2)

Extra-Contractual Obligations/Torts (LAWG 101D1 / LAWG 101D2)

2. Advanced Private Law

Civil Law

Advanced Civil Law Obligations (PROC 200)

Employment Law (LEEL 570)

Insurance (BUS2 561)

Law of Persons (PRV2 270)

Lease, Enterprise, Suretyship (PROC 549)

Successions (PRV1 555)

Common Law

Advanced Common Law Obligations (PRV3 200)

Advanced Torts (PRV5 582)

Equity and Trusts (PRV4 549)

Real Estate Transactions (PRV4 451)

Remedies (PRV3 534)

Restitution (PRV4 500)

Wills and Estates (PRV4 556)

Transsystemic Private Law

Business Associations (BUS2 365)

Commercial Law (LAWG 200)

Consumer Law (PRV5 483)

Evidence (Civil Matters) (LAWG 415)

Family Law (LAWG 273)

2. Advanced Private Law

Family Property Law (LAWG 300)

Medical Liability (CMPL 522)

Private International Law (LAWG 316)

Secured Transactions (LAWG 400)

3. Legal Theory, Legal Traditions and Legal History

Aboriginal Peoples and the Law (CMPL 500)

Advanced Jurisprudence (CMPL 505)

Canadian Legal History (CMPL 547)

Feminist Legal Theory (CMPL 504)

Foundations (PUB3 116D1 / PUB3 116D2)

Jurisprudence (CMPL 501)

Legal Theory (CMPL 506)

Linguistic and Literary Approaches to Law (CMPL 507)

Roman Law (CMPL 510)

Talmudic Law (CMPL 513)

Theories of Justice (CMPL 512)

4. Human Rights and Cultural Diversity

Aboriginal Peoples & Law (CMPL 500)

Canadian Charter of Rights and Freedoms (PUB3 515)

Civil Liberties (CMPL 573)

Discrimination and the Law (CMPL 575)

Inter American Human Rights (LAWG 503)

International Humanitarian Law (CMPL 565)

International Human Rights Internship (WRIT 020)

International Law of Human Rights (CMPL 571)

Social Diversity and Law (CMPL 511)

5. Social Law

Employment Law (LEEL 570)

Immigration and Refugee Law (PUB2 551)

Labour Law (LEEL 369)

Land Use Planning (PRV4 545)

Law and Poverty (LEEL 582)

Law and Psychiatry (PUB2 500)

6. Law of the State

The Administrative Process (PUB2 400)

Comparative Federalism (PUB2 503)

Constitutional Law (PUB2 101D1 / PUB2 101D2)

Constitutional Law of the United States (PUB2 102)

Judicial Review of Administrative Action (PUB2 401)

6. Law of the State

Municipal Law (PUB2 403)

Policies, Politics and Legislative Process (CMPL 518)

Statutory Interpretation (PUB2 505)

7. Regulation, Technology and Society

Communications Law (CMPL 577)

Comparative Medical Law (CMPL 551)

Computers and the Law (CMPL 578)

Copyright and Trademark Theory (BUS2 500)

Entertainment Law (CMPL 524)

Environment and the Law (CMPL 580)

Government Control of Business (CMPL 574)

Intellectual and Industrial Property (BUS2 502)

Medical Liability (CMPL 522)

Patent Theory and Policy (BUS2 501)

Science Technology and Law (CMPL 576)

8. Corporate Law and Taxation

Banking Law (BUS2 531)

Bankruptcy (BUS1 432)

Business Associations (BUS2 365)

Business Organizations (BUS2 503)

Corporate Finance (BUS2 505)

Corporate Taxation (PUB2 517)

Estate Planning (BUS1 414)

International Taxation (CMPL 539)

Securities Regulation (BUS2 504)

Taxation (PUB2 313)

Tax Policy (PUB2 515)

9. International Business Law

European Community Law 1 (CMPL 536)

European Community Law 2 (CMPL 537)

International Business Enterprises (CMPL 541)

International Carriage of Goods by Sea (CMPL 515)

International Development Law (CMPL 516)

International Maritime Conventions (CMPL 553)

Law and Practice of International Trade (CMPL 543)

Resolution of International Disputes (CMPL 533)

Trade Regulation (CMPL 521)

10. Public International Law

International Criminal Law (PUB2 502)

10. Public International Law

International Environmental Law and Politics (CMPL 546)

International Humanitarian Law (CMPL 565)

International Human Rights Internship (WRIT 020)

International Law of Human Rights (CMPL 571)

The Law of International Organization (PUB2 506)

Public International Law (PUB2 105)

Summer Arbitration Program (LAWG 5XX)

11. Criminal Law

Advanced Criminal Law (PUB2 501)

Criminal Law (PUB2 111)

Criminal Procedure (PUB2 422)

Evidence (Criminal Matters) (LAWG 426)

International Criminal Law (PUB2 502)

International Law of Human Rights (CMPL 571)

Sentencing in Canadian Law (PUB2 504)

12. Advocacy and the Legal Profession

Civil Litigation Workshop (PROC 459)

Criminal Procedure (PUB2 422)

Evidence (Civil Matters) (LAWG 415)

Evidence (Criminal Matters) (LAWG 426)

Extrajudicial Dispute Resolution (CMPL 568)

Introductory Legal Research (PRAC 147D1 / PRAC 147D2)

Judicial Institutions and Civil Procedure (PROC 124)

Legal Ethics and Advocacy (PRAC 155D1 / PRAC 155D2)

Trial Advocacy (PUB2 420)

10 Desautels Faculty of Management

10.1 About Desautels Faculty of Management

For over a century, the Desautels Faculty of Management has been among the world's top international business schools. The Faculty is home to 10 research centres, four unique executive development programs, and 11 academic programs with 3,500 students at the undergraduate, master's, executive, and Ph.D. levels. Nearly half of the Faculty's students and 80% of its tenured professors come from outside of Canada, creating a truly rich global learning environment.

10.2 History of the Faculty

Management education began at McGill University in 1906. The department of Commerce was first established within the Faculty of Arts, offering commercial courses to train people as accountants, clerks, and the like. In 1912, the Commerce Program was named the School of Commerce, and the first B.Com. degrees were awarded by McGill in 1915. Five years later, McGill's School of Commerce was founded, independent of the Faculty of Arts. In 1972, the Samuel Bronfman Building, now home to the Desautels Faculty of Management, was opened at 1001 Sherbrooke Street West in the heart of downtown Montreal. A generous donation from the Bronfman family, of Seagram Corporation fame, made the construction of the building possible.

More than a century later, foundations for a world-class business school expanded to offer a B.Com. program; an M.B.A. program; specialized master's programs; M.B.A. Japan, the first Canadian degree program offered in Japan; a joint bilingual E.M.B.A. with HEC Montréal, a program first of its kind in North America; a Ph.D. program; and numerous executive programs. On November 17, 2005, a landmark gift of \$22 million from the Canadian Management Foundation through Dr. Marcel Desautels was donated to the Faculty, ushering in a new era in business education at McGill. The gift fostered changes to its facilities, revamping of the B.Com. and M.B.A. curriculums, and hiring of new professors. In honour of his gift, the Faculty was named the Desautels Faculty of Management.

10.3 Facilities

Management courses are mostly taught in the Samuel Bronfman Building. The seven-floor building is located at 1001 Sherbrooke Street West, on the south-west corner of McGill's downtown main campus. The building is adjacent to McGill's Bookstore, McLennan, and Redpath Libraries, and the Service Point across the street. Furthermore, the Bronfman Building borders the main campus and other University buildings. It is a walk away from McGill's Athletics Complex.

In recent years, the Bronfman Building has witnessed major upgrades, including, thanks to Herschel Victor's generosity, a complete renovation of the lobby and bistro. Thanks to Marcel Desautels, numerous large "learning-friendly" classrooms have been built throughout the building, including the Concourse level.

The Concourse is a floor entirely dedicated to Desautels undergraduate students, featuring medium- and large-sized classrooms, a modern computer lab, and a large student-living area. The living area includes a suite of offices for Desautels undergraduate student clubs as well as facilities for social activities. In addition, a small student-run shop, known as Dave's, is located in the Concourse; it is dedicated to a former classmate.

The Faculty values its students' participation in project teams for all Bronfman building renovations. Numerous areas throughout the building have been set up and are fully equipped for students to study in groups or individually. Products and furnishings are environmentally friendly and a wireless network is available throughout the building.

10.4 About the Desautels Faculty of Management (Undergraduate)

For over a century, the Desautels Faculty of Management has been among the world's top international business schools. The Faculty is home to 10 research centres, four unique executive development programs, and 11 academic programs with 3,500 students at the undergraduate, master's, executive, and Ph.D. levels. Nearly half of the Faculty's students and 80% of its tenured professors come from outside of Canada, creating a truly rich global learning environment.

10.4.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West
Montreal, Quebec H3A 1G5
Canada

Telephone: 514-398-4068

Faculty website: www.mcgill.ca/desautels

Degree website: www.mcgill.ca/desautels/bcom

The BCom Student Affairs Office of the Desautels Faculty of Management and the office of the Director, BCom Program are located in the Samuel Bronfman Building, Room 110. The BCom Student Affairs Office serves all students taking undergraduate Management courses.

10.4.2 Administrative Officers

Dean

Peter Todd; B.Com.(McG.), Ph.D.(Br. Col.)

Associate Dean, Student Affairs

Robert Hebdon; B.A., M.A., Ph.D.(Tor.)

Director, BCom Program

Glenn Zabowski; B.Com., M.B.A.(McG.)

10.4.3 The Bachelor of Commerce Program

Internationally acclaimed for its high academic standards and excellence in teaching/research, and widely recognized as Canada's leading international business school, McGill University consistently attracts top students and faculty members from around the world.

The primary objective of the McGill BCom program is to prepare you for an effective professional and managerial career. This preparation includes developing in you a capacity for critical thinking, for integrating knowledge across different disciplines, and for utilizing current theory in approaching practical business problems. You are also expected to become comfortable with taking risks, working as part of a team, and developing the necessary skills to lead others. You will acquire the critical management competencies which will enable you to offer the expertise organizations need to respond to the ever-changing and increasingly complex global marketplace.

The BCom's highly flexible curriculum offers you both breadth and depth. Breadth is achieved through a broad-based core of required courses which provide the necessary quantitative, analytical, and communication skills, while grounding you in applied theory and practice across the major management disciplines. Depth is achieved through three alternate specializations of study designed to meet the needs of a highly diverse student body with a wide range of career interests and priorities.

In the General Management concentration, you will pursue focused study in two different areas. You must choose one concentration in Management, and for your second area of study, you have two options: 1) choosing a second concentration in Management; or 2) pursuing a minor in another faculty. This option is ideal if you are looking for a general business education, are interested in continuing your education in a related field such as law or industrial relations, or want to pursue a career in a specific sector such as the arts, applied science, or public administration.

Majors and honours programs are available if you want to focus your study in primarily one area in order to get maximum exposure to your chosen field. This option is for students with clearly defined career objectives or those interested in further professional training, such as a CA, CMA, CGA, or CFA designation.

In International Management, you have a chance to pursue interdisciplinary global studies. All students in the Major complete the requirements of the International Business Concentration. You choose to complete social science and humanities courses in one of the following themes: comparative global studies, global politics and economy, or global well-being and development. You are also required to complete at least two levels of a language and 3 credits of research or internship work. Exchanges are recommended.

Candidates coming from the Quebec CEGEP system apply to a **three-year program** whereas out-of-province and international students follow a **four-year program**.

10.4.4 BCom Student Affairs Office

The BCom Student Affairs Office provides ongoing advice and guidance on programs and prerequisites, degree requirements, majors, minors and concentrations, registration, course changes, procedures for withdrawal, deferred final examinations, rereads, academic standings, inter-faculty transfers, exchanges or study abroad, transfer credits, scholarships, and graduation. Student advisers offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions.

The BCom Office abides by everything in this publication: prerequisites, concentrations, majors, etc. The BCom Office will not make exceptions for students against this publication in any situation. No exceptions to this publication will be approved by the BCom Office or the Director, BCom program.

For more information, please refer to the BCom website at www.mcgill.ca/desautels/bcom.

10.4.5 Summer Studies

If you want to make up deficiencies in your background, or to accelerate your progress in your degree, you may do so by taking summer courses at McGill or at another institution.

Each summer, from early May to mid-August, many core courses and several elective courses are offered by the Desautels Faculty of Management for full credit. They are available to Management students, and to students from other faculties and universities who have the necessary course prerequisites. McGill also offers a number of summer courses in various disciplines at different levels. Information on summer courses is available from the BCom Student Affairs Office at 514-398-4068 or bcom.mgmt@mcgill.ca, or from the Summer Studies Office at 514-398-5212 or summer.studies@mcgill.ca.

You normally will be allowed to take only 6 credits in each of the two parts of Summer session. If you want to follow a full-time period of study, you will be permitted to enrol for more than 6 credits per part only with special permission of the Director, BCom program. In no circumstance will students be allowed to take more than 12 credits in either part of the Summer session, and students may take no more than 18 credits in a single summer.

If you want to pursue courses at another institution, credit will be granted for such courses only if they fit into your overall program, and if written permission to complete such courses for credit has been obtained in advance from the BCom Student Affairs Office. A course that overlaps with material already completed in your program, or a language course that does not substantially progress beyond corresponding language courses already taken, will not receive credit approval. See [section 10.4.7: Transfer Credit and Advanced Standing](#) for more information about transferring credits.

As well, the Desautels Faculty of Management offers the International Summer Program, which is designed to provide **international undergraduate students** the opportunity to gain critical North American perspectives on issues of global importance. For further information, please refer to the website: www.mcgill.ca/desautels/programs/international-summer.

10.4.6 International Student Exchange Program

You are encouraged to take advantage of opportunities to study abroad for a term or year. The international exposure and academic experience gained by taking part in a student exchange are highly worthwhile. Through this program, you may study and earn academic credits at over 70 universities in countries around the world. Exchange opportunities are open to students in most specializations.

More information can be obtained from the BCom Student Affairs Office at 514-398-4068, bcom.mgmt@mcgill.ca, or on the McGill website at www.mcgill.ca/students/international/goabroad. At least two-thirds of all departmental program requirements must be completed at McGill and there is a CGPA requirement of 3.0 to be eligible for exchange. Once accepted, you must obtain written faculty authorization for transfer credits before leaving on exchange. For more information about the International Student Exchange program, please visit: www.mcgill.ca/desautels/programs/bcom/academics/exchange.

10.4.7 Transfer Credit and Advanced Standing

Students are admitted to a four-year program requiring the completion of 120 credits, but Advanced Standing of up to 30 credits may be granted if you have obtained satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement Tests. Students who transfer course credit from another institution may transfer up to one-third of the credits required in their degree program, including the concentration, major, or honours requirements under the following conditions:

- Only courses passed with a grade of C or better at the host institution will be transferred. Grades of C- are not acceptable.
- Grades of P or S are acceptable only if transferred from faculties within McGill.
- The letter grades applied by the former home institution or host institution (for exchanges and study away) take precedence over the numerical grades if provided.
- For exchange or study away purposes, it is required that course and credit approval is obtained before courses are taken at the host institution.
- The four-year program will require a minimum 80-credit residency at McGill.
- The three-year program will require a minimum 60-credit residency at McGill.
- Credits will not be given for online or “distance” courses.

10.5 BCom Degree Admission Requirements

The Desautels Faculty of Management offers programs that are highly selective and fulfilment of minimum admission requirements does not guarantee acceptance. For information about admission requirements to the BCom program, please refer to the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying. Students who have been asked to withdraw from a program in another faculty/university due to poor performance are not eligible for transfer into the BCom program. Information about interfaculty transfers can be obtained from the BCom Student Affairs Office at 514-398-4068 or the BCom website at www.mcgill.ca/desautels/bcom.

10.6 BCom Degree Requirements

The Bachelor of Commerce (BCom) degree program is a three- or four-year program when taken full-time. Although the language of instruction at McGill is English, those who plan to be part of the Quebec business environment are reminded of the importance of competence in both written and oral French. Students may submit assignments and write exams in French.

10.6.1 Academic Requirements for Graduation

Each student in the Desautels Faculty of Management must be aware of the Faculty regulations as stated in this publication and on the McGill and BCom websites. While BCom Office advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of course selection and registration, for compliance with, and completion of, program and degree requirements, and for the observance of regulations and deadlines **rests with you**. It is your responsibility to seek guidance from the BCom Student Affairs Office if in any doubt; misunderstanding or misapprehension will not be accepted as cause for any exception from any regulation, deadline, program, or degree requirement.

For students entering with a Quebec CEGEP Diploma, the number of credits is generally 90. Students from outside the province of Quebec who have not completed the equivalent of a CEGEP Diploma are required to complete 120 credits.

It is your responsibility to make sure that your course of study conforms with the curriculum requirements as described in this publication. If you want to deviate from your program, you must obtain written permission from the Director, BCom program.

If you have transferred with advanced standing to the Desautels Faculty of Management from another university, you are required to complete a minimum of 60 credits while registered in the BCom program, including required courses that are deemed necessary, to become eligible for the degree of BCom.

10.6.2 Cumulative Grade Point Average (CGPA)

You will be eligible for graduation upon satisfactory completion of the minimum credit requirement for the degree as indicated in your letter of acceptance, subject to the curriculum and CGPA of 2.00 (3.00 for Honours) requirements.

10.6.3 Course Requirements

All required and complementary courses used to fulfil program requirements, including the Freshman program, must be completed with a grade of C or better. If you fail to obtain a satisfactory grade in a required course (core, part of a concentration, minor, major, or honours program), you must repeat the course. Course substitution will be allowed only in special cases; you should consult your academic adviser. Normally, you are permitted to repeat a failed

course only once (failure is considered to be a grade of less than C or the administrative failures of J and KF). If the failed course is a complementary course required by the program, you may choose to replace it with another complementary course. If you choose to substitute another complementary course for a complementary course in which a D was received, credit for the first course will still be given, but as an elective. If you repeat a required course in which a D was received, credit will be given only once. In either case, both grades of D count toward the CGPA.

In addition, if a course is passed with a grade of C or better, and is then repeated in the future, the subsequent course will not be allowed to count for credit, nor be calculated in the CGPA.

10.6.4 Academic Advising

If you are entering the Desautels Faculty of Management for the first time, you are required to attend an Orientation and Advising Session during the last week of August, at which time the staff from the BCom Student Affairs Office provide information on all aspects of the BCom program. If you have had difficulty registering for your courses, and have not contacted the BCom Office to resolve your issues, you will have the opportunity to resolve your problems after this session. For a detailed description of advising and registration procedures, you should refer to [section 10.6.5: Registration](#); the website for newly admitted undergraduate students at www.mcgill.ca/newstudents; as well as the BCom website at www.mcgill.ca/desautels/bcom.

Academic advising for all returning students takes place in February and March for the upcoming academic year. "Drop-in" advising is available in the BCom Student Affairs Office from mid-August until the end of the add/drop period in the Fall term, and from the beginning of January until the end of the add/drop period in the Winter term. Appointments to discuss programs of study with student advisers may be made as soon as the add/drop period ends in September and then again in January, respectively. In February or March, an Information Session takes place that helps you to select a course of study for specialization. In April, as a student continuing in the BCom program, you will plan your studies for the following year using the requirements as listed in the *Programs, Courses and University Regulations* publication, or in the Degree Evaluation Module available through Minerva, as a guide to your course selection. Advice is available at the BCom Student Affairs Office for students if you are having difficulty. Students register online using Minerva at www.mcgill.ca/minerva.

If you are a General Management student choosing to do a minor in another faculty as your second area of study, you should meet with the appropriate department adviser to plan your courses. **It should be noted that minors must have a minimum of 18 credits not overlapping with other program requirements.**

If you are taking the Minor, Major, or Honours in Economics, you must see an adviser in the BCom Student Affairs Office for approval of your program and course selection.

If you are in the Major concentration or Minor in Mathematics, or Statistics, you must have your program of study initially authorized by the appropriate department adviser prior to consulting with a student adviser in the BCom Student Affairs Office.

You should contact a student adviser as soon as possible if you are encountering difficulties (academic or personal) or are requesting specific information about the BCom program.

10.6.5 Registration

- It is your responsibility to register on time. Failure to register for courses when the registration periods begin may delay graduation and completion of program requirements. **Space is limited.**
- Registration for Fall and Winter courses will begin in late March and early April for BCom students. Priority registration in Management courses for Summer opens in early March. Exact dates may be obtained from www.mcgill.ca/importantdates.
- All courses have limited enrolment. BCom students who are unable to register for required or complementary courses that they need in order to graduate on time should submit a copy of the *Closed Management Course Request Form* to the BCom Student Affairs Office with a copy of their Degree Evaluation and any relevant supporting documentation. During the add/drop periods, you must meet with an adviser; *Closed Management Course Request Forms* will not be accepted. Exact deadlines may be obtained from www.mcgill.ca/importantdates.
- BCom students are generally not permitted to take courses offered through the School of Continuing Studies (SCS) for credit toward their degree. If you want to receive special permission to take a course through SCS (i.e., to enable you to graduate on time or take an approved elective that is only offered by SCS), you must submit a *Cont Ed Request Form* to the BCom Student Affairs Office with a copy of your Degree Evaluation and any relevant supporting documentation. You cannot register for SCS courses via Minerva; if approved, the BCom Office will need to add this course to your record. You should **not** go to nor contact the School of Continuing Studies regarding registration for an SCS course.
- New students must select their area(s) of specialization online using Minerva **before** they are permitted to register for courses. The program options available are found in the *Change your Curriculum* module of the Student Menu.
- Full-time students must register for courses online using Minerva. Additional information for new students is distributed at the time of admission and is also available on the Faculty website at www.mcgill.ca/desautels under *Degree Programs > BCom > Accepted Students* and www.mcgill.ca/students/records. Information for returning students and part-time students is available in the BCom Office as of March.
- If you want to change the courses for which you are registered within the add/drop period, you must do so online using Minerva.
- If you want to withdraw from a course after the add/drop deadline, you must do so online using Minerva by the withdrawal deadline. A grade of "W" will be indicated on the transcript, which does not affect your GPA. Approval to withdraw after the withdrawal deadline will be granted only in exceptional circumstances. A written request for such consideration, accompanied by substantial documentation, must be submitted to the Director, BCom Program. If your circumstances require you to withdraw from your program completely, you should see an adviser in the BCom Student Affairs Office.
- When your record is verified, any courses taken that violate the degree regulations will be flagged after the end of the course change period as "not for credit towards the BCom." As a result, your expected date of graduation may be delayed. If you believe that you have valid reasons to take a course that may not be credited toward your BCom, you must obtain permission from the Director, BCom Program.

10.6.6 Course Overlap

You will not receive credit toward your degree for any course that overlaps in content with a course taken for credit at McGill, CEGEP, or another university; advanced placement exams; Advanced Level results; International Baccalaureate Diploma; or French Baccalaureate Diploma.

It is your responsibility to consult with the BCom Student Affairs Office as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course descriptions in this publication. Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: www.mcgill.ca/students/courses/plan/transfer.

Credit for Statistics courses will be given with the following restrictions:

- Credit will be given for ONLY ONE of the following Statistics courses: AEMA 310, BIOL 373, ECON 227D1/ECON 227D2 (max. 3 credits), ECON 257D1/ECON 257D2, GEOG 202, GEOG 351, MATH 204, MATH 324, MATH 357, MGCR 271, MGCR 273, MIME 209, PSYC 204, SOCI 350.
- Credit will be given for ONLY ONE of the following intermediate Statistics courses: MGSC 372, ECON 257D1/ECON 257D2, the combination of ECON 337 & ECON 338, ECON 467.
- For 500-level Statistics courses not listed above, you must consult a student adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which you have already received credit, credit will not be allowed.
- Credit for Statistics courses offered by faculties other than Management requires the permission of the Director, BCom program.
- PSYC 204 may not be taken if a grade of 75% or better was received in an equivalent course completed at CEGEP.

Credit for computer courses offered by the School of Computer Science is governed by rules specified in its individual course descriptions.

Credit for Economics courses will be subject to the following restrictions:

- A maximum of 6 credits will be granted for Freshman Economics courses.
- A maximum of 6 credits will be granted for ECON 230D1/ECON 230D2, ECON 250D1/ECON 250D2, and MGCR 293.
- A maximum of 6 credits will be granted for ECON 330D1/ECON 330D2, ECON 352D1/ECON 352D2, and ECON 295.
- ECON 208 and ECON 209 are not permitted in the 90-credit program.

10.6.7 Course Taken Under the Satisfactory/Unsatisfactory Option

You may select or cancel the S/U option only during registration or the add/drop period through a request to the BCom Student Affairs Office. All S/U credits will be excluded when calculating the Grade Point Average. This option may only be used for elective courses, one course per term, to a maximum of 10% of the total credits taken at McGill to fulfil your degree requirements. Careful consideration should be given before using this option as it can affect scholarship and award consideration, where a minimum of 27 graded credits are required, as well as future admission to law or graduate schools.

For more information and restrictions, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.7: Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option*.

10.6.8 Electives

10.6.8.1 Non-Management Electives

Students completing two concentrations, or Majors in Accounting, Finance, Information Systems, Labour-Management Relations and Human Resources, or Marketing, must take a minimum of 6 credits of non-Management electives in the three-year program (90 credits), or 12 credits of non-Management electives in the four-year program (120 credits). This requirement does not apply to those completing any minor outside of Management, or a major in Economics, Mathematics, or Statistics, or an Honours or Joint Honours program.

Non-Management electives may be chosen from a broad range of faculties and departments, subject to the exclusions of [section 10.6.6: Course Overlap](#) regarding Statistics, Computer, and Economics courses, and the restrictions listed below.



Note 1: Quantitative Methods, Statistics, and Research courses offered by any department must be approved by the Director, BCom program, prior to registration in the course. Failure to obtain the necessary approval will result in the course being excluded (E) from the credit count.



Note 2: A maximum of 6 credits can be taken in English for Academic Purposes and/or English as a Second Language: the relevant subject codes are CEAP, CEEN, CEG, CESL, and EDEC.

10.6.8.1.1 Faculty constraints

Agricultural & Environmental Sciences

- All courses require approval by a student adviser in the BCom Student Affairs Office.

Arts

- All courses are approved, subject to [section 10.6.6: Course Overlap](#) and the above notes, with a maximum of 6 credits approved in CEAP, CEEN, CEG, CESL, and EDEC (combined), or SWRK (approved courses only). ECON 208 and ECON 209 may not be taken for credit within the BCom program.

Continuing Studies

- A maximum of 6 credits are approved from the language courses offered; no credit will be granted for other SCS courses with subject codes beginning with a "C," such as CCTR or CMIS.

Education

- A maximum 6 credits are approved from the following subject codes (combined): EDEA 201, EDEA 204, EDEA 205, EDEA 296, EDEA 304, EDEA 305, EDEA 307, EDEA 496, EDEA 497; EDEC 200, EDEC 202, EDEC 205, EDEC 208, EDEC 236, EDEC 239, EDEC 241, EDEC 242, EDEC 247, EDEC 248, EDEC 260, EDEC 261, EDEC 305, EDEC 308, EDEC 309, EDEC 403; EDEE 325; EDEM 220, EDEM 209, EDEM 309, EDEM 394, EDEM 395, EDEM 461, EDEM 473, EDEM 494; EDES 366; EDKP 205, EDKP 206, EDKP 261, EDKP 292, EDKP 293, EDKP 303, EDKP 330, EDKP 391, EDKP 395, EDKP 566; EDPC 510; EDPE 377; EDPE 526.

- No courses are approved from subject codes EDET, EDFC, EDFE, EDPT, or EDSL.

Engineering

- Most courses in subject codes ARCH, CHEE, CIVE, ECSE, MECH, MIME, URBP with approval of an adviser.

- No courses are approved from subject codes FACC or MPMC.

- The following courses are not approved: CHEE 291, CHEE 360, CHEE 462; CIVE 210, CIVE 432; ECSE 443; MECH 201, MECH 260, MECH 262, MECH 289; MIME 202, MIME 221, MIME 280, MIME 290, MIME 291, MIME 310, MIME 380, MIME 392, MIME 480, MIME 481, MIME 494.

School of Environment

- All courses are approved.

Music

- MUPD 200 and MUPD 201 as well as all courses are approved in subject codes MUGT, MUHL, MUMT, MUPP, MUSR, MUTH, and MUAR (taught by Arts). MUPD 204 is not approved for credits.

- A maximum of 6 credits is approved from the following (combined): MUCO, MUCT, MUEN, MUIN, MUIT, MUJZ, MUPG, and MUSP.

Religious Studies

- All courses are approved.

Science

- All courses are approved, subject to [section 10.6.6: Course Overlap](#) and the above Note 1, except COMP 102 and COMP 189; MATH 111, MATH 112, MATH 122, MATH 123, MATH 133, MATH 139, MATH 140, MATH 141, MATH 150, MATH 151, MATH 152, MATH 203, and MATH 204.

- A maximum of 6 credits may be taken from the World of Chemistry courses CHEM 180, CHEM 181, CHEM 182, CHEM 183.

10.6.8.2 Electives

Subject to the requirements and restrictions for non-Management electives as outlined above, all remaining elective credits may be taken in any faculty, Management or otherwise.

10.6.9 Academic Standing

Academic Standing is based primarily on your cumulative grade point average (CGPA), but may also be affected by your term grade point average (TGPA). Academic Standing is assessed in January for the Fall term, in May for the Winter term, and in September for the Summer term. Academic Standing in each term determines whether you will be allowed to continue your studies in the next term and whether any conditions will be attached to your registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which you have deferred examinations and Fall-term grades for courses that span the Fall and Winter terms do not affect your Academic Standing for the Fall term, even though they will ultimately affect your Fall TGPA. Therefore, Academic Standings for the Fall term are designated as "Interim." **Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions.**

If you are not in Satisfactory Standing, you are strongly advised to consult with Heather McCombie in the BCom Student Affairs Office about your course selection before the withdrawal deadlines.

10.6.9.1 Satisfactory/Interim Satisfactory Standing

If you are in Satisfactory Standing, you may continue in your program.

- New students are admitted to Satisfactory Standing.
- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.
- You must obtain a minimum CGPA of 2.00 to be considered for graduation with a McGill degree.

10.6.9.2 Probationary/Interim Probationary Standing

If you are in Probationary Standing, you may continue in your program, but must carry a reduced load (maximum 14 credits per term) and raise your TGPA and CGPA to return to Satisfactory Standing (see above). You should see your student adviser to discuss your course selection.

If you are in Interim Probationary Standing, you may continue in your program, but should evaluate your course load and reduce it as appropriate. You are strongly advised to consult with your student adviser, before the withdrawal deadlines, about your course selection for the Winter term.

- If you were previously in Satisfactory Standing, you will be placed in Probationary Standing if your CGPA falls between 1.50 and 1.99.
- If you were previously in Probationary Standing, you will remain in Probationary Standing if your CGPA falls between 1.50 and 1.99 and your TGPA is 2.50 or higher (although the TGPA requirement will not apply to the Summer term).
- If you were previously in Interim Unsatisfactory Standing, you will be placed in Probationary Standing if your CGPA falls between 1.50 and 1.99 and your TGPA is 2.50 or higher.
- If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program by the Director, you will be placed in Probationary Standing if your CGPA is lower than 2.00. To remain in the program, you must satisfy the relevant conditions specified in your letter of readmission.

10.6.9.3 Unsatisfactory Readmitted Standing

If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program by the Director, you will have your Standing changed to Unsatisfactory Readmitted Standing. Your course load is specified in your letter of readmission, as are the conditions you must meet to be allowed to continue in your program. You should see your student adviser to discuss your course selection.

10.6.9.4 Unsatisfactory/Interim Unsatisfactory Standing

If you are in Interim Unsatisfactory Standing, you may continue in your program, but should evaluate your course load and reduce it as appropriate. You are strongly advised to consult a student adviser, before the withdrawal deadlines, about your course selection for the Winter term.

If you are in Unsatisfactory Standing, you have failed to meet the minimum standards set by the Faculty. You may not continue in your program, and your registration will be cancelled.

Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Director, BCom program, no later than July 15 for readmission to the Fall term and November 15 for the Winter term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (i.e., medical or other documentation) along with reassurances of future improvement. If you are in Unsatisfactory Standing for the second time, you must withdraw permanently.

- You will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term) if your CGPA falls or remains below 1.50.
- If you were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing, you will be placed in Unsatisfactory Standing if your TGPA falls below 2.50 and your CGPA is below 2.00.
- If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program by the Director and you have not at least satisfied the conditions to attain Probationary Standing that were specified in your letter of readmission, you will be placed in Unsatisfactory Standing.

10.6.9.5 Incomplete Standings

Standing awaits deferred exam.

Standing Incomplete

If you have an Incomplete Standing in the Winter or Summer term, you may register for the Fall term, but your Standing must be resolved by the end of the add/drop period for that term. If your Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing, you may continue in the program. If your Standing changes to Unsatisfactory Standing, you may not continue in your program, and your registration will be cancelled.

If your Standing changes to Unsatisfactory and you wish to ask for permission to continue in your program, you must meet with Heather McCombie as soon as you are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (i.e., medical or other documentation) along with reassurances of future improvement.

10.6.10 Time and Credit Limit for Completion of the BCom Degree

If you need 90 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the BCom degree. If you are a student in the Freshman program, you become subject to these regulations one year after your initial registration. If you want to exceed this time limit or want to exceed the minimum credit requirement for your degree, you must apply in writing to the Director, BCom program, for permission to continue your studies. Permission for exceeding the time and/or credit limit will normally be granted only for valid academic reasons. Elective credits over the credit limit will be flagged for no credit and the grades will not count in your CGPA.

If you are readmitted after interrupting your studies for a period of one year or more, you must apply in writing to the Director, BCom program. When you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission.

10.7 Grading and Credit

During the first week of lectures, each instructor will provide you with a written course outline that should include:

- A description of the topics to be considered in the course;
- A list of required or recommended textbooks and reading materials;

- A grading scheme or description of the methods of evaluation to be used in the course, along with due dates for assignments and dates/times of exams. All term work must be assigned early enough in the term for students to complete the assignment(s) by the last day of class. The due date for term work must be no later than the last day of classes. Changes in the distributed grading scheme are permitted only with the unanimous consent of all students registered in the course. In practice, therefore, the grading scheme is almost never changed during the term;
- The instructor's office hours for students, office location, telephone number for office appointments, and secretarial contact information;
- Academic Integrity statement: **McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism, and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest for more information).**

10.7.1 Examinations

For information about final examinations and deferred examinations, see also *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.6: Examinations: General Information](#)*. Final examinations are centrally administered by Enrolment Services. Around the beginning of November and March, a final examination schedule will be posted on the McGill website (www.mcgill.ca) by Enrolment Services. The seating arrangements are posted on the McGill website toward the end of the last week of classes.

BCom students and non-Management students taking BCom courses are contacted by Enrolment Services via McGill email regarding final exam conflicts. Arrangements to resolve final exam conflicts are made and communicated by Enrolment Services via McGill email as well. You should also refer to the BCom website at www.mcgill.ca/desautels/bcom for more information. Students are warned not to make travel arrangements to leave Montreal prior to the posting of the official final examination schedule.

BCom courses cannot have examinations scheduled during the last two weeks of term worth more than 10% of the final grade. You must repeat any grades of D or F in core courses or courses as part of a concentration, minor, major, or honours program. However, D is a passing grade for elective courses.

10.7.1.1 Supplemental Examinations

Supplemental examinations are not offered in undergraduate courses administered by the Desautels Faculty of Management. If you are required to improve your standing in a course, you must repeat the course in a subsequent term, completing all course requirements to the satisfaction of the instructor. Faculty policy does not allow you to do additional work to improve your standing in a course.

10.7.1.2 Deferred Examinations

For missed final examinations, whatever the reason may be, professors and students are **not** to make alternate arrangements. You must complete an *Application for Deferred Final Exam* through your Minerva account as well as provide supporting documentation to the BCom Office. This online application must be completed within five working days of the date of the exam, and the supporting documentation must be submitted to the BCom Office within this time frame as well. The BCom Office will then review the reasons for the exam having been missed and will either give you permission to write a deferred final exam, or not. If approved, you will write the final exam during the University's official deferred exam period—specific dates in May (Fall terms) and August (Winter and Summer terms). It is up to you to verify the deferral schedule, which the Registrar makes up and administers.

10.7.2 Verification of Grades and Rereads

In accordance with the Charter of Student Rights, and subject to its stated conditions, you have the right to consult any written submission for which you have received a mark and the right to discuss this submission with the examiner.

In a case where you feel that an error has been made in arriving at the final grade, a *Verification of Grade Application* must be completed in the BCom Student Affairs Office, requesting the instructor to carry out a detailed check that all questions have been marked, and that the final grade has been computed correctly on the basis of the term work, final examination, etc. However, during the course of the term, any requests to have term work re-evaluated should initially be made directly to the instructor.

The Desautels Faculty of Management recognizes two types of rereads or reassessments:

- reread of coursework (term papers, mid-terms, assignments, quizzes, etc.)
- reread of a final exam

In both cases, rather than recorrect the work and then grade it as they would have done themselves, reviewers assess the appropriateness of the original grade based, for example, on the application of the grading key to the student's work. If a grade is deemed unfair, it is changed, whether the new grade is higher or lower than the original, i.e., the reviewer's grade takes precedence over the original grade.

10.7.2.1 Reread of Coursework

You may apply to the BCom Student Affairs Office for rereads of written coursework. You are assessed a fee of \$35.00 for such rereads. Requests for rereads involving group work require the consent of all members of the group, but only one reread fee will be assessed. It is strongly recommended that you consult with the instructor of the course before requesting a reread of coursework. Requests for rereads must be made within 10 working days of the date of return of the graded materials. Reassessments should normally be completed within 20 working days of the request.

10.7.2.2 Rereads of Final Exams

These rereads are administered by the BCom Student Affairs Office. You must apply in writing to the BCom Student Affairs Office by March 31 for courses in the Fall term and by September 30 for courses in the Winter or Summer terms (these deadlines are strictly enforced, and no requests will be accepted past

them). You are assessed a fee of \$35.00 for such rereads. It is strongly recommended, but not required, that you consult with the instructor of the course before requesting a reread of a final exam.

Reassessments and rereads in courses outside the Desautels Faculty of Management are subject to the deadlines, rules, and regulations of the relevant faculty.

10.7.3 Awards and Honorary Designations: Honours and First-Class Honours

Graduating students registered in an honours program may be awarded Honours or First-Class Honours under the following conditions:

- For Honours, the CGPA at graduation must be at least 3.0 overall and in the specified courses of the program.
- For First-Class Honours, the CGPA at graduation must be at least 3.5 overall and in the specified courses of the program.

Students in an honours program whose GPA or CGPA is below 3.0, or who did not satisfy certain additional program requirements, must consult their student adviser to determine whether they are eligible to graduate in a program other than honours.

10.7.4 Awards and Honorary Designations: Distinction

For information on the designation of Distinction awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.2: Graduation Honours: Distinction](#)*.

10.7.5 Awards and Honorary Designations: Dean's Honour List

For information on the designation of Dean's Honour List awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.1: Graduation Honours: Dean's Honour List](#)*.

10.7.6 Awards and Honorary Designations: Scholarships, Prizes, and Medals

Various scholarships, prizes, and medals are open to returning and graduating students. Full details can be found in the *Undergraduate Scholarships and Awards Calendar* available at www.mcgill.ca/students/courses/calendars. For information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > [section 1.8: Scholarships and Student Aid](#)*.

As a registered student, you are automatically considered by the Undergraduate Scholarships Committee for each award for which you are eligible, with the following exceptions for in-course scholarships: James Hartt Schurman Memorial Award, Rio Tinto Alcan – Richard Evans International Exchange Award, Danny and Monica Gold Award for Academic Excellence, Hundredth Anniversary MUS Graduating Class of 2007 Scholarship, Sheila Wellington BMO Financial Group Awards, KPMG Scholarship, Commerce '55 Scholarships, Hyman Herbert Stein Award, Donald R. McRobie Award, Great-West Life & London Life Scholarship, Hugh Howson Memorial Prize, Dr. Alex Paterson Scholarship, Paul-Hervé Desrosiers Scholarship in Entrepreneurial Studies, Shirin Yeganegi Memorial Scholarship, HSBC Bank Canada Management Awards, Bruce and Jocelyn Pearson Scholarship, and RSM Richter Scholarship in Accounting, Marcel A. Desautels BCom Scholarship, and HSBC Women in Business Leadership Award. The Stephen S. Goldbloom Memorial Prize is the exception for a graduating student. For these, the Undergraduate Scholarships Committee welcomes applications and recommendations, substantiated by curriculum vitae, from individual students, student groups, and clubs. Such information should be forwarded to scholarship.mgmt@mcgill.ca. A minimum of 27 graded credits must have been completed in the year to be eligible; 14 credits in one term.

10.8 Overview of Programs Offered by the Desautels Faculty of Management

Overview of Programs

120-Credit Program, Freshman Course Distribution

Management Core

General Management Program (Concentrations)

Minors for Management Students

Minors for Non-Management Students

Majors

Honours

10.8.1 BCom Program Credit Structure: General Management Program (Concentrations)

2 Concentrations	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36

2 Concentrations	90 credits	120 credits
2 Concentrations	30	30
Non-Mgmt Electives	6	12
Electives	18	24
Total	90	120
1 Concentration & 1 Minor (18 credits)	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36
1 Concentration + 1 Minor (18 credits)	33	33
Non-Mgmt Electives	0	12
Electives	21	21
Total	90	120
1 Concentration & 1 Minor (24 credits)	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36
1 Concentration + 1 Minor (24 credits)	39	39
Non-Mgmt Electives	0	12
Electives	15	15
Total	90	120

Concentrations

- Accounting
- Entrepreneurship
- Finance
- Information Systems
- International Business
- Labour-Management Relations and Human Resources
- Marketing
- Operations Management
- Organizational Behaviour
- Strategic Management

10.8.1.1 Minors/Minor Concentrations for Management Students

Although only the Mathematics and Statistics Minors are outlined in this section, a wide variety of programs are available as listed in the sections for the Faculties of Arts and Science. Popular choices include Anthropology, Canadian Studies, Computer Science, English – Literature, Environmental Studies, Geological Sciences, German, History, International Development, Political Science, Women's Studies, etc. Students interested in the Minor in Economics must see an adviser in the BCom Student Affairs Office for Faculty approval.

It should be noted that a minimum of 18 credits of the Minor's requirements must not overlap with any other part of the student's program.

10.8.2 BCom Program Credit Structure: Major or Honours Programs

Majors in Management	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36
Major	30	30
Non-Mgmt Electives	6	12
Electives	18	24
Total	90	120

Major Concentrations in Mathematics or Statistics	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36
Major	39	39
Non-Mgmt Electives	0	12
Electives	15	15
Total	90	120

Major in Economics	90 credits	120 credits
Freshman Requirements	0	18
Core*	27	27
Major**	36	36
Non-Mgmt Electives	0	12
Electives	27	27
Total	90	120

* MGCR 271 Business Statistics is counted toward the 36 credits of the Major, not core.

** MGCR 293 & ECON 295 in core are exempted by the required ECON courses within the Major.

Major in International Management	90 credits	120 credits
Freshman Requirements	0	18
Core	36	36
International Business Concentration Component	15	15
Area of Study Component: Minor Concentration	18	18
Language Component	9-12	9-12
Experiential Learning Component	0-3	0-3
Non-Mgmt Electives	0	12
Electives	6-15	6-15
Total	90	120

Honours in Economics	90 credits	120 credits
Freshman Requirements	0	18
Core*	27	27
Honours	42	42
Non-Mgmt Electives	0	12
Electives	21	21
Total	90	120

* MGCR 271, MGCR 293, & ECON 295 in core are exempted by the required ECON courses within the Honours.

Joint Honours in Economics & Finance or Joint Honours in Economics and Accounting	90 credits	120 credits
Freshman Requirements	0	18
Core*	27	27
Economics	30	30
Accounting or Finance	24	24
Non-Mgmt Electives	0	12
Electives	9	9

Joint Honours in Economics & Finance or Joint Honours in Economics and Accounting	90 credits	120 credits

Total	90	120

* MGCR 271, MGCR 293, & ECON 295 in core are exempted by the required ECON courses within the Honours.

Honours in Investment Management	90 credits	120 credits

Freshman Requirements	0	18
Core	36	36
Honours	42	42
Non-Mgmt Electives	6	12
Electives	6	12
Total	90	120

Majors

- Accounting
- Economics
- Finance
- Information Systems
- International Management
- Labour-Management Relations and Human Resources
- Marketing
- Mathematics (Major concentration)
- Statistics (Major concentration)

Honours

- Economics
- Economics/Accounting
- Economics/Finance
- Investment Management

10.8.3 120-Credit Program, Freshman Course Distribution

Students admitted to a program requiring 97–120 credits (four years) register in a Freshman year in which they must complete MATH 122 and MATH 123 (or equivalents) as well as the 12 credits of complementary courses specified below.

A minimum grade of C is required for all MATH and Freshman complementary courses, as well as BUSA 100 and BUSA 250.

Advanced standing students with under 24 credits have the option of taking BUSA 100 and BUSA 250. Advanced standing students with 24 or more credits will not be eligible to take BUSA 100 & 250.

Please note that you are responsible for ensuring that the prerequisites and corequisites of all courses (required and complementary) are satisfied.

The Freshman Course Distribution is as follows:

U0 Required Courses (12 credits)

MATH 122 ¹	(3)	Calculus for Management
MATH 123 ¹	(3)	Linear Algebra and Probability
BUSA 100	(3)	Introduction to Management
BUSA 250	(3)	Expressive Analysis for MGMT

U0 Complementary Courses (9 credits)

9 credits in total must be selected from the following three categories. Courses must be chosen from at least two groups.

C1. Society, Culture & Language

C2. Critical Thinking & Analysis

C3. Global Perspective & Environment

Course listings can be found at the Desautels Faculty of Management's website at:

www.mcgill.ca/desautels/programs/bcom/academics/programstructure/120-credit-program.

U0 Elective Courses (9 credits)

U0 Electives are subject to the restrictions for non-Management electives.

Program Footnote:

1. Students with credit/exemption for MATH 140 are exempt from MATH 122. However, MATH 122 does not exempt students required to take MATH 140 for specific programs.

Students considering the following programs:

Major or Minor in Mathematics or Statistics, or Honours or Joint Honours program in Economics

- replace MATH 122 with:
 - MATH 139 Calculus or MATH 140 Calculus 1 and
 - MATH 141 Calculus 2
- replace MATH 123 with:
 - MATH 133 Linear Algebra and Geometry
- Six of these credits would be counted in the U0 Required Courses and the remaining credits would count toward C2. Critical Thinking & Analysis.



Note: Management students cannot receive credit for ARET 150, COMP 102, ECON 208, ECON 209, ECON 227, ECON 230, ECON 250D1/ECON 250D2, ECON 257D1/ECON 257D2, MATH 112, MATH 203, or MATH 204 as elective courses.

10.8.4 Management Core

All BCom students take the 36-credit core curriculum set out below, except where modifications are specifically required by a major or honours program. A grade of C or better is required for all core courses. If a D is obtained in a core course, the course must be repeated.

10.8.4.1 Core Course Distribution

Required Courses (36 credits)		
ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Finance 1
MGCR 352	(3)	Marketing Management 1
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Organizational Policy
MGCR 472	(3)	Operations Management

Program Footnotes:

Students considering the following programs:

- **Major in Mathematics or Major and Minor in Statistics:**
 - replace MGCR 271 with MATH 324 (prerequisite: MATH 323)
- **Honours or Joint Honours Program in Economics:**
 - replace MGCR 271 with ECON 257D1/D2
 - replace MGCR 293 with ECON 250D1/D2
 - replace ECON 295 with ECON 352D1/D2 (taken in the second year)

- **Major Program in Economics:**

- replace MGCR 293 with ECON 230D1/D2.
- replace ECON 295 with ECON 330D1/D2 (taken in the second year)

Also note that:

- A maximum of 6 credits will be permitted within the BCom program for MGCR 293 and ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2.
- A maximum of 6 credits will be permitted within the BCom program for ECON 295 and ECON 330D1/ECON 330D2 or ECON 352D1/ECON 352D2.

10.8.5 Concentrations (General Management Major)

In order to complete a concentration, students must achieve a grade of C or better in all the courses that comprise the concentration. Students who have failed to earn 15 satisfactory credits will be required to embark on a new concentration, repeat the course(s) in question or, where possible, replace the course(s) with a satisfactory substitution from the complementary courses of the concentration.

In general, students will begin taking courses from the chosen concentration(s) in the U2 year.

Academic mentors are appointed for each Management concentration to assist students in choosing a concentration and provide additional information regarding course selection.

Second Concentration:

Students who choose to take a second concentration will be required to complete 15 non-overlapping credits at a satisfactory level with a minimum grade of C in each course.

10.8.5.1 Bachelor of Commerce (B.Com.) — Concentration in Accounting (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Accounting concentration is designed to meet the needs of Management students who want to have a good basic understanding of accounting, but do not intend to become professional accountants or accounting specialists. It is primarily oriented toward users of financial information and emphasizes breadth of knowledge in a coherent selection of courses.

This concentration complements or forms part of the B.Com., General Management program. The individual courses in the concentration also act as service courses for other areas in the Faculty for their majors or concentrations.

Required Courses (6 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 361	(3)	Management Accounting

Complementary Courses (9 credits)

Selected from the following:

ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 454	(3)	Financial Reporting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

10.8.5.2 Bachelor of Commerce (B.Com.) — Concentration in Entrepreneurship (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/courseinfo>

The Entrepreneurship concentration is concerned with the genesis and development of entrepreneurial activities. It deals with the integration of marketing, finance, organization and policy in the development and expansion of business enterprise. Included are the evaluation of new business ventures, the role of acquisitions, and the strategic issues and operating problems at various stages of a firm's existence from its beginnings to maturity.

Complementary Courses

At least 6 credits from the following:

BUSA 462	(3)	Management of New Enterprises
BUSA 464	(3)	Management of Small Enterprises
BUSA 465	(3)	Technological Entrepreneurship

Remaining credits to be selected from:

ACCT 361	(3)	Management Accounting
ACCT 385	(3)	Principles of Taxation
BUSA 364	(3)	Business Law 1
FINE 442	(3)	Capital Markets and Institutions
INSY 332	(3)	Accounting Information Systems
INSY 432	(3)	IT in Business
INSY 454	(3)	Technological Foundation for E-Commerce
MGPO 365	(3)	Business-Government Relations
MGPO 445	(3)	Industry Analysis & Competitive Strategy
MGPO 450	(3)	Ethics in Management
MGPO 460	(3)	Managing Innovation
MGPO 567	(3)	Business in Society
MGSC 578	(3)	Simulation of Management Systems
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

10.8.5.3 Bachelor of Commerce (B.Com.) - Concentration in Finance (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Finance concentration has been designed to provide understanding of key concepts in finance theory, financial institutions, investment analysis, risk management, and applied techniques. Graduates find a strong demand among financial organizations, governments, and non-financial firms where they pursue careers that lead to positions such as Managing Partner, Treasurer, and V.P. Finance.

Required Courses (9 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance

Complementary Courses (6 credits)

Selected from the following:

FINE 434	(3)	Topics in Finance 1
FINE 442	(3)	Capital Markets and Institutions

FINE 445	(3)	Real Estate Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

10.8.5.4 Bachelor of Commerce (B.Com.) — Concentration in Information Systems (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Information Systems (IS) concentration is flexible and represents an ideal complement to the majors and concentrations of other areas, as information technology (IT) has the capacity to transform and improve all functions of organizations in every economic sector. This concentration emphasizes the importance of the interrelationships across technology, management, and strategy. The objective is to prepare students to be effective planners, users, and managers of IT in the digital economy. It provides students with assets that award them a unique competitive advantage.

Students with an IS concentration are well positioned to participate in IT-driven changes that continue to affect knowledge work, business processes, organizational design, and the operation of markets and industries. Former graduates have secured jobs in consulting, IT management, business analysis, etc. in various industries, e.g., banking, healthcare, finance, education, government, etc.

Required Course (3 credits)

INSY 333	(3)	Systems Analysis and Modeling

Complementary Courses (12 credits)

Selected from the following:

INSY 331	(3)	Managing Information Technology
INSY 332	(3)	Accounting Information Systems
INSY 339	(3)	IT Consulting
INSY 341	(3)	Developing Business Applications
INSY 430	(3)	IT in Financial Markets
INSY 431	(3)	IT Implementation Management
INSY 432	(3)	IT in Business
INSY 434	(3)	Topics in Information Systems 1
INSY 437	(3)	Managing Data & Databases
INSY 440	(3)	E-Business
INSY 444	(3)	Managing Knowledge with Information Technology
INSY 450	(3)	Information Systems Project Management
INSY 454	(3)	Technological Foundation for E-Commerce

10.8.5.5 Bachelor of Commerce (B.Com.) - Concentration in International Business (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The objective of the International Business Concentration is to help the student develop conceptual and analytical skills needed to formulate feasible and effective management policies in an international setting. With economic and business activity becoming increasingly internationalized, the program provides useful preparation for careers in a variety of internationally-oriented organizations, including local business firms involved in international trade, licensing, or financial arrangements; headquarters or subsidiaries of multinational companies; banks and other international financial institutions; and various governmental organizations.

Required Courses (3 credits)

BUSA 356	(3)	Management in Global Context

Complementary Courses (12 credits)

Selected from the following:

BUSA 391	(3)	International Business Law
BUSA 394	(3)	Managing in Asia
BUSA 395	(3)	Managing in Europe
BUSA 401	(3)	Independent Studies in International Business
BUSA 433	(3)	Topics in International Business 1
BUSA 481	(3)	Managing in North America
BUSA 493	(3)	Global Economic Competitiveness
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
INDR 459	(3)	International Employment Relations
MGPO 383	(3)	International Business Policy
MGPO 435	(3)	International Business History
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MRKT 451	(3)	Marketing Research
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

10.8.5.6 Bachelor of Commerce (B.Com.) - Concentration in Labour-Management Relations and Human Resources (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The objective of the this concentration is to provide a general understanding of employer-employee relations and human resources, both at the micro-level and in relation to the socio-economic context in which they occur. Students interested in more intensive study of this area are urged to consider the Major program in Labour-Management Relations and Human Resources.

Required Courses (9 credits)

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 496	(3)	Collective Bargaining
ORGB 423	(3)	Human Resources Management

Complementary Courses (6 credits)

Selected from the following:

INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	International Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 494	(3)	Labour Law
INDR 495	(3)	Labour Relations: Public Sector
INDR 497	(3)	Contract Administration

ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 421	(3)	Managing Organizational Change
ORGB 440	(3)	Career Theory and Development

10.8.5.7 Bachelor of Commerce (B.Com.) — Concentration in Marketing (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Marketing concentration prepares the student for a wide variety of career opportunities. Marketing graduates historically have found employment in the fields of product management, advertising, sales management, marketing management, pricing, marketing research, distribution, and retailing. The Marketing concentration provides a balance between courses focusing on fundamental, theoretical, and "need to know" material, and courses with a strong practical and applied orientation.

Required Courses (12 credits)

MRKT 354	(3)	Marketing Management 2
MRKT 357	(3)	Marketing Planning 1
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour

Complementary Course (3 credits)

One course selected from:

MRKT 351	(3)	Marketing and Society
MRKT 355	(3)	Services Marketing
MRKT 365	(3)	New Products
MRKT 434	(3)	Topics in Marketing 1
MRKT 438	(3)	Brand Management
MRKT 453	(3)	Advertising Management
MRKT 455	(3)	Sales Management
MRKT 456	(3)	Business to Business Marketing
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

10.8.5.8 Bachelor of Commerce (B.Com.) - Concentration in Operations Management (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

Operations Management is concerned with the design, planning, control, coordination, and improvement of business processes, systems, and resources integral to the creation of the firm's products and services. Emphasizing quantitative analysis and cross-functional thinking, the Operations Management concentration provides training on traditional as well as emerging operations strategies, concepts, models, and techniques that are essential to any firm in today's competitive marketplace. Operations management graduates find career opportunities in a variety of industries and fields including consulting, manufacturing, distribution, retail, transportation, health care, and public sector, among others.

Required Courses (6 credits)

MGSC 373	(3)	Operations Research 1
MGSC 431	(3)	Operations Analysis

Complementary Courses (9 credits)

Selected from the following:

MGSC 372	(3)	Advanced Business Statistics

MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

or approved courses in other areas or faculties.

10.8.5.9 Bachelor of Commerce (B.Com.) — Concentration in Organizational Behaviour (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Organizational Behaviour concentration provides an opportunity for students to increase their awareness of behavioural issues encountered in job and organizational settings, and to prepare themselves for graduate study in the behavioural sciences or for careers in general management or human resource management.

Complementary Courses (15 credits)

Selected from the following:

ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 423	(3)	Human Resources Management
ORGB 429D1*	(3)	Organizational Behaviour for Course Counsellors
ORGB 429D2*	(3)	Organizational Behaviour for Course Counsellors
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

* If ORGB 429 is taken, only 3 credits will count toward the Concentration; the other 3 will be counted as electives.

10.8.5.10 Bachelor of Commerce (B.Com.) - Concentration in Strategic Management - Global Strategy (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Context.

The Global Strategy option is intended for students who want to learn strategic management and analysis in the context of globalization. Globalization is no longer the concern of a few large enterprises and financial institutions; it has consequences that affect all kinds of businesses and the environments in which they operate - economic, social, political, and ecological. Global Strategy allows students to assess the various opportunities and threats inherent in globalization, and requires them to explore the consequences and implications of business decisions for society and the environment. It also enables them to think through the requirements of doing business in different economic and political systems. Finally, it offers them the opportunity to understand and analyze industry structures and the kinds of business opportunities they either create or destroy.

Complementary Courses

At least 9 credits selected from the following:

MGPO 383	(3)	International Business Policy
MGPO 445	(3)	Industry Analysis & Competitive Strategy
MGPO 460	(3)	Managing Innovation
MGPO 469	(3)	Managing Globalization

MGPO 470	(3)	Strategy and Organization

The remaining credits to be chosen from:

BUSA 391	(3)	International Business Law
ECON 305	(3)	Industrial Organization
MGPO 365	(3)	Business-Government Relations
MGPO 434	(3)	Topics in Policy 1
MGPO 435	(3)	International Business History
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 468	(3)	Managing Organizational Politics
MGPO 475	(3)	Strategies for Developing Countries
MGSC 578	(3)	Simulation of Management Systems

10.8.5.11 Bachelor of Commerce (B.Com.) - Concentration in Strategic Management - Social Context (15 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Context.

The Social Context option is intended for students who want to learn strategic management and analysis with special attention to the not-for-profit or civil sectors, or who want to focus on broader or more complex social issues within the for-profit sector. The civil sector, made up of voluntary and non-governmental organizations and foundations, is the sector that has been the fastest growing employer for the past decade. Students who focus on this stream will be challenged to place a high priority on environmental issues, as well as issues of sustainability, corporate social responsibility, and social impact. They will also investigate the social tools and mechanisms necessary to employ cross-sectoral collaboration to achieve desired social outcomes.

Complementary Courses

At least 9 credits selected from the following:

MGPO 365	(3)	Business-Government Relations
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 468	(3)	Managing Organizational Politics
MGPO 475	(3)	Strategies for Developing Countries

The remaining credits to be chosen from:

BUSA 391	(3)	International Business Law
MGPO 383	(3)	International Business Policy
MGPO 434	(3)	Topics in Policy 1
MGPO 435	(3)	International Business History
MGPO 445	(3)	Industry Analysis & Competitive Strategy
MGPO 460	(3)	Managing Innovation
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization
MGPO 567	(3)	Business in Society
MGSC 578	(3)	Simulation of Management Systems

10.8.6 Minors for Management Students

The Minor programs offered in the Faculties of Arts and Science may be taken in conjunction with any BCom program.

Students doing a Minor program must have a Desautels Faculty of Management Minor Approval Form, listing the courses being applied to the Minor, signed by the Minor adviser in the relevant department.

For the Minor in Economics, students must complete 18 credits of material that does not overlap with Management course content. **A maximum of 6 credits will be permitted within the BCom program for MGCR 293 and ECON 230D1/D2 or ECON 250D1/D2, and a maximum of 6 for ECON 295 and ECON 330D1/D2 or ECON 352D1/D2.** Students interested in this Minor must obtain approval from the BCom Office.

The Minor in Mathematics and the Minor in Statistics are detailed in this publication. For all other Minors, please refer to *Faculty of Arts* and *Faculty of Science* sections of this publication. Students should begin the Minor in Mathematics or the Minor in Statistics no later than the second-to-last year and should immediately consult the appropriate adviser in the Department of Mathematics and Statistics.

Students planning to take the Minor in Statistics are advised to substitute MATH 324 for MGCR 271. That course will then count as 3 credits toward the Minor. If the decision to take a Minor program is made after MGCR 271 has been taken, students who wish to take MATH 324 will receive three additional credits; however, MATH 324 will only count toward the 18-credit Minor requirement. Students should check for overlap between Statistics courses with the BCom Student Affairs Office.

10.8.6.1 Bachelor of Commerce (B.Com.) - Minor Mathematics for Management Students (18 credits)

Mentors: Professors A. Hundemer and A. Kelome, Department of Mathematics and Statistics, Faculty of Science

Program Prerequisites

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

or their equivalents

Required Courses (12 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MGSC 373	(3)	Operations Research 1

Complementary Courses (6 credits)

Maximum of 3 credits from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

The remaining 3 credits selected from:

MATH 316	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 340	(3)	Discrete Structures 2
MATH 407	(3)	Dynamic Programming

MATH 417 (3) Mathematical Programming

10.8.6.2 Bachelor of Commerce (B.Com.) - Minor Statistics for Management Students (21 credits)

Mentor: Professor A. Kelome, Department of Mathematics and Statistics, Faculty of Science

Program Prerequisites

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

or their equivalents

Required Courses (15 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

* Credits for MATH 324 are counted in the Management core, where they replace MGCR 271. MATH 324 is a required course in the program and may be double-counted for this Minor.

Complementary Courses (6 credits)

6 credits selected from:

MATH 204**	(3)	Principles of Statistics 2
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

** Students should consult the rules for credit for Statistics courses in the course overlap section of this publication. In particular, MATH 204 cannot be taken for credit after credit for MATH 324 has been obtained.

10.8.7 Minors for Non-Management Students

The Desautels Faculty of Management offers four minors, allowing undergraduates to develop a variety of managerial skills that will serve them throughout their chosen careers. The minors have limited enrolment. Applicants for the minors must have a minimum CGPA of 3.0 **although successful completion of the minimum requirements does not guarantee acceptance**. All minors are 18 credits split between a fixed set of required courses and a choice amongst complementary courses. Students can only pursue one of the minors offered by the Desautels Faculty of Management. On an exceptional basis, students may be permitted a maximum of one Continuing Studies course for credit within their chosen Management minor. All minors for non-Management students require an application. The form may be found at www.mcgill.ca/desautels/programs/bcom/prospectivestudents/minors; hard copies of application forms are also available in the BCom Student Affairs Office, Bronfman 110. Applications must be submitted to the BCom Student Affairs Office by January 30 and decisions will be made by February 15, whereby students will be informed via their McGill email addresses. Courses for minors must be passed with grades of C or better. Courses for minors cannot be taken under the Satisfactory/Unsatisfactory option.

10.8.7.1 Minor Finance (For Non-Management Students)

The Minor Finance is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

Detailed information on this Minor can be found under each of the following:

Programs, Courses and University Regulations > Faculty of Arts > Undergraduate > Academic Programs > Management Minor Programs for Arts Students > [section 3.10.34.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > Minor Programs in Finance, Management, Marketing, and Operations Management > [section 6.12.10.10.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > Management Minor Programs for Science Students > [section 13.13.20.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#).

10.8.7.2 Minor Management (For Non-Management Students)

The Minor Management is offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

Detailed information on this Minor can be found under each of the following:

Programs, Courses and University Regulations > Faculty of Arts > Undergraduate > Academic Programs > Management Minor Programs for Arts Students > [section 3.10.34.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > Minor Programs in Finance, Management, Marketing, and Operations Management > [section 6.12.10.10.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > Management Minor Programs for Science Students > [section 13.13.20.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Schulich School of Music > Undergraduate > Programs of Study > Management Minor Programs > [section 11.8.4.1: Minor Management \(For Non-Management Students\) \(18 credits\)](#).

10.8.7.3 Minor Marketing (For Non-Management Students)

The Minor Marketing is offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

Detailed information on this Minor can be found under each of the following:

Programs, Courses and University Regulations > Faculty of Arts > Undergraduate > Academic Programs > Management Minor Programs for Arts Students > [section 3.10.34.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > Minor Programs in Finance, Management, Marketing, and Operations Management > [section 6.12.10.10.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > Management Minor Programs for Science Students > [section 13.13.20.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Schulich School of Music > Undergraduate > Programs of Study > Management Minor Programs > [section 11.8.4.2: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#).

10.8.7.4 Minor Operations Management (For Non-Management Students)

The Minor Operations Management is offered to non-Management students in the Faculties of Arts, Engineering, Science, and Agricultural & Environmental Sciences.

Detailed information on this Minor can be found under each of the following:

Programs, Courses and University Regulations > Faculty of Arts > Undergraduate > Academic Programs > Management Minor Programs for Arts Students > [section 3.10.34.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > Minor Programs in Finance, Management, Marketing, and Operations Management > [section 6.12.10.10.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#).

Programs, Courses and University Regulations > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > Management Minor Programs for Science Students > [section 13.13.20.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#).

10.8.7.5 Minor in Technological Entrepreneurship for Engineering Students

Detailed information on this Minor can be found under *Programs, Courses and University Regulations > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > [section 6.12.10.17: Technological Entrepreneurship Minor](#).*

10.8.7.6 Minor in Technological Entrepreneurship for Science Students

Detailed information on this Minor can be found under *Programs, Courses and University Regulations > Faculty of Science > Undergraduate > Academic Programs (Faculty of Science) > [section 13.13.35: Technological Entrepreneurship for Science Students](#).*

10.8.8 Majors

Major programs are available in Accounting, Economics, Finance, Information Systems, International Management, Labour-Management Relations, Marketing, and Mathematics.

Because of the heavier demands of Major programs, students desiring to pursue a program of this type are advised to declare their intention at the beginning of the program. Only grades of C or better may count towards the Major requirements.

10.8.8.1 Bachelor of Commerce (B.Com.) — Major Accounting (30 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

This 30-credit Major is designed to meet the increased demand for accounting options within the BCom program.

Required Courses (18 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 455	(3)	Development of Accounting Thought

Complementary Courses (12 credits)

Selected from the following:

ACCT 354	(3)	Financial Statement Analysis
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 454	(3)	Financial Reporting
ACCT 463	(3)	Management Control
ACCT 471	(3)	Non-Profit Accounting
ACCT 475	(3)	Principles of Auditing
ACCT 476	(3)	Internal Auditing
ACCT 477	(3)	External Auditing
ACCT 486	(3)	Business Taxation 2

10.8.8.2 Bachelor of Commerce (B.Com.) - Major Economics for Management Students (36 credits)

Mentors: Professors P. Dickinson, J Kurien, and M. Chemin; Department of Economics, Faculty of Arts

Please consult the Economics Department website for the names of its advisers.

This Major is comprised of 36 credits of Economics courses (9 credits of which are counted as core credits).

Required Courses (18 credits)

ECON 230D1*	(3)	Microeconomic Theory
ECON 230D2*	(3)	Microeconomic Theory
ECON 330D1**	(3)	Macroeconomic Theory
ECON 330D2**	(3)	Macroeconomic Theory
MGCR 271***	(3)	Business Statistics
MGSC 372	(3)	Advanced Business Statistics

* 3 of the 6 credits for Microeconomic Theory exempt MGCR 293 in Core.

** 3 of the 6 credits for Macroeconomic Theory exempt ECON 295 in Core.

*** 3 of the 3 credits for MGCR 271 will count in Core.

Complementary Courses (18 credits)

Selected from other 200-, 300-, and 400-level courses in Economics (ECON), excluding courses with numbers below 210. At least 6 of these 18 credits should be taken from courses with 400-level numbers. No more than 6 of the 18 credits may be taken at the 200 level.

10.8.8.3 Bachelor of Commerce (B.Com.) - Major Finance (30 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The 30-credit Finance Major has been designed to meet the increasing demand for expertise in this rapidly growing functional area of business. This major is designed to provide in-depth knowledge of finance theory, financial institutions, investment analysis, risk management, and applied techniques. Employment for graduates is most often obtained in investment and commercial banking, manufacturing and service firms, non-profit organizations and governments, and non-financial firms.

Required Courses (18 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 448	(3)	Financial Derivatives
FINE 482	(3)	International Finance 1
MGSC 372	(3)	Advanced Business Statistics

Complementary Courses (12 credits)

At least 9 credits from:

FINE 434	(3)	Topics in Finance 1
FINE 442	(3)	Capital Markets and Institutions
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

The remainder, if any, from:

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 354	(3)	Financial Statement Analysis
ACCT 385	(3)	Principles of Taxation
FINE 445	(3)	Real Estate Finance

10.8.8.4 Bachelor of Commerce (B.Com.) — Major Information Systems (30 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

This 30-credit Major prepares students for the multitude of IT-related career opportunities available in industry. It employs a blend of theoretical concepts, hands-on tools, and actual case studies to train students to identify business problems and opportunities, analyze business processes, and develop and implement information systems to support them. The IS Major covers a variety of topics including strategic planning and investment in information technologies, analysis, design, and deployment of information systems, understanding the opportunities and challenges of web-based businesses, and managing resistance to IT-initiated changes in organizations.

Graduates of this program may expect to find employment as business or systems analysts, consultants, IS quality assurance specialists, and project managers in diverse industries, including banking, insurance, manufacturing, retailing, and consulting.

Required Courses (18 credits)

INSY 331	(3)	Managing Information Technology
INSY 333	(3)	Systems Analysis and Modeling
INSY 341	(3)	Developing Business Applications
INSY 432	(3)	IT in Business
INSY 437	(3)	Managing Data & Databases
INSY 450	(3)	Information Systems Project Management

Complementary Courses (12 credits)

Selected from the following:

BUSA 499*	(3)	Case Analysis and Presentation
INSY 332	(3)	Accounting Information Systems
INSY 339	(3)	IT Consulting
INSY 430	(3)	IT in Financial Markets
INSY 431	(3)	IT Implementation Management
INSY 434	(3)	Topics in Information Systems 1
INSY 440	(3)	E-Business
INSY 444	(3)	Managing Knowledge with Information Technology
INSY 454	(3)	Technological Foundation for E-Commerce

* Students wishing to take BUSA 499 or a course substitution as a complementary course must seek prior approval from the IS Area Coordinator.

10.8.8.5 Bachelor of Commerce (B.Com.) - Major International Management (48 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Major in International Management (MIM), 42-48 credits, is designed for students who wish to combine business studies with regional or thematic global studies and foreign language proficiency. MIM will acquaint students with the impact of managing in one of three themes:

- 1) Comparative Global Studies
- 2) Global Politics and Economy
- 3) Global Well-Being and Development

This Major is interdisciplinary and integrative and includes a business component: 15-credit International Business concentration; an Area of Study component: 27- to 33-credit Interdisciplinary Area of Specialization that includes an 18-credit Minor concentration outside the Management Faculty, 9-12 credits of language courses, and an experiential learning experience in the form of either exchange, internship or research.

Graduates will be well-suited to manage in culturally diverse environments, to work in a specific area of the world, or in a wide range of global positions in business, government, multilateral organizations, or NGOs.

International Business Concentration Component (15 credits)

Students are required to take the following 3-credit course:

BUSA 356	(3)	Management in Global Context

Complementary Courses (12 credits)

Selected from the following:

BUSA 391	(3)	International Business Law
BUSA 394	(3)	Managing in Asia
BUSA 395	(3)	Managing in Europe
BUSA 401	(3)	Independent Studies in International Business
BUSA 433	(3)	Topics in International Business 1
BUSA 481	(3)	Managing in North America

BUSA 493	(3)	Global Economic Competitiveness
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
INDR 459	(3)	International Employment Relations
MGPO 383	(3)	International Business Policy
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MRKT 451	(3)	Marketing Research
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

Area of Study Component (18 credits)

Students choose either one minor concentration or courses from the selected list of courses from one of the three themes below:

Theme 1: Comparative Global Studies

Students can choose to study a region including Africa, East Asia, Middle East, South Asia, Europe, or the Americas, or several regions from a comparative global perspective in Religious Studies, Political Science, History, or Economics. This option focuses on aspects of global society and culture from a social science perspective. This theme is suitable for students who would like to work in a specific country or region or for students who want to work for a multinational company or government organization with global interests.

B.A. Minor Concentration in African Studies (18 credits)

B.A. Minor Concentration in Canadian Studies (18 credits)

B.A. Minor Concentration in Comparative Politics (18 credits)

B.A. Minor Concentration in East Asian Cultural Studies (18 credits)

B.A. Minor Concentration in Economics* (18 credits)

B.A. Minor Concentration in History (18 credits)

B.A. Minor Concentration in Islamic Studies (18 credits)

B.A. Minor Concentration in Jewish Studies (18 credits)

B.A. Minor Concentration in Middle East Studies (18 credits)

B.A. Minor Concentration in North American Studies (18 credits)

B.A. Minor Concentration in Quebec Studies (18 credits)

B.A. Minor Concentration in Russian Culture (18 credits)

B.A. Minor Concentration in South Asia (18 credits)

B.A. Minor Concentration in World Religions (18 credits)

* Students should choose Economics (ECON) courses with a regional focus. Course numbers above ECON 209 (excluding ECON 295) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 and ECON 295 that are prerequisites for 300-level courses in economics do not count as part of this Minor concentration. ECON 227 will not count if it is taken to meet other B.Com. requirements.

Theme 2: Global Politics and Economy

This theme focuses on aspects of public policy from the perspective of global transactions and finance. Students may select a minor concentration in the area of international relations and investigate policy on a global scale and its operations in the context of policy, war and peace, the economy, security, trade, human rights, and international organizations. Graduates with this option would be poised to apply their educational background to careers with world government, trade, or economic organizations, NGOs, national governments, or businesses with global interests. The choices of programs include Economics, Geography, Political Science, or a selected group of courses.

B.A. Minor Concentration in Economics (18 credits)

B.A. Minor Concentration in International Relations (18 credits)

B.A. Minor Concentration in Political Economy (18 credits)

B.A. Minor Concentration in Political Science (18 credits)

B.A. Minor Concentration in Politics, Law and Society (18 credits)

B.A. Minor Concentration in Political Theory (18 credits)

OR

Global Governance, Conflict and Human Rights Concentration

18 credits of the following courses with at least 6 credits at the 300 level or above:

ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
CANS 307	(3)	Canada in the World
CANS 412	(3)	Canada and Americas Seminar
COMS 230	(3)	Communication and Democracy
COMS 320	(3)	Media and Empire
HIST 221	(3)	United States since 1865
HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 339	(3)	Arab-Israeli Conflict
HIST 371	(3)	American Civil Rights 1877-1940
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War
HIST 438	(3)	Topics in Cold War History
JWST 240	(3)	The Holocaust
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
POLI 212	(3)	Government and Politics - Developed World
POLI 244	(3)	International Politics: State Behaviour
POLI 322	(3)	Political Change in South Asia
POLI 345	(3)	International Organizations
POLI 351	(3)	The Causes of Major Wars
POLI 360	(3)	Security: War and Peace
POLI 440	(3)	Civil-Military Relations
POLI 450	(3)	Peacebuilding
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
SOCI 210	(3)	Sociological Perspectives
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Sociology of Globalization
SOCI 386	(3)	Contemporary Social Movements
SOCI 511	(3)	Movements/Collective Action

Theme 3: Global Well-Being and Development

Broad-based, interdisciplinary topics will allow students to study current issues of social importance ranging from: poverty and inequality, health promotion and the environment, sustainability, and natural resource management. Students will be prepared to apply business practices to the protection of the vulnerable and the planet. Students will be poised to work for multinationals, governments, or non-governmental organizations.

B.A. Minor Concentration in Anthropology (18 credits)
 B.A. Minor Concentration in Economics* (18 credits)
 B.A. Minor Concentration in Geography (18 credits)
 B.A. Minor Concentration in International Development Studies (18 credits)
 B.A. Minor Concentration in Psychology (18 credits)
 B.A. Minor Concentration in Social Studies of Medicine (18 credits)
 B.A. Minor Concentration in Sociology (18 credits)
 B.A. Minor Concentration in Environment: McGill School of Environment (18 credits)
 B.Sc. Minor Concentration in Environment: McGill School of Environment (18 credits)
 B.Sc. Field Study Minor (18 credits)

* Students should choose Economics (ECON) courses related to the environment, development, and health. Course numbers above ECON 209 (excluding ECON 295) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 and ECON 295 that are prerequisites for 300-level courses in economics do not count as part of this Minor Concentration. ECON 227 will not count if it is taken to meet other B.Com. requirements.

Language Component (9-12 credits)

9 credits of language in First- or Second-Level EAST (Asian Languages and Literature)*

or

9 credits of ISLA 521D1/D2 Introductory Arabic**

* Students may choose to complete additional credits in Japanese, Chinese or Korean for a total of 18 credits. Only 9 credits of EAST languages will count toward the Major and any optional additional credits will count as electives or toward another component if the student has sufficient credits to complete it within their degree. Students may not exceed the total credits required to graduate in order to complete these additional language credits.

** Students with no prior knowledge of Arabic may choose two levels of Arabic. Only ISLA 521 will count toward the Major and any additional optional credits in ISLA 522 or 523 will count as electives.

OR

12 credits of language courses, at the 500 level or lower, chosen from ONE of the following Subject Codes:

CLAS (Classics) [Modern Greek]

EAST (East Asian) - Third and Fourth Level

FREN (French)

FRSL (French as a Second Language)

GERM (German Studies) [German]

HISP (Hispanic Studies) [Spanish, Portuguese]

***ISLA (Middle East Studies) [Lower and Higher Intermediate Level Arabic, Turkish, Urdu, Persian]

****ITAL (Italian Studies) [Italian]

JWST (Jewish Studies) [Hebrew, Yiddish]

RUSS (Russian) [Russian]

*** Students placed in Lower Intermediate Arabic will complete ISLA 522D1/D2 and ISLA 523D1/D2 for a total of 12 credits.

**** Students wishing to register for ITAL 205 should do so in their first year as this course is open only to U0 and U1 students. ITAL 206 is open to U0, U1, and U2 students. ITAL 210, ITAL 215, and ITAL 216 can be taken by all students.

Note: Registration processes for language courses vary by department, but usually involve placement tests or departmental approval. Students should consult with the individual departments to ensure that they register for the appropriate level.

Experiential Learning Component (0-3 credits)

International Exchange Component

Students complete at least one term of exchange or an international educational experience approved by the BCom SAO. Credits received for courses successfully completed while abroad will count towards other components of the Major in International Management as determined by the program/exchange adviser.

OR

Internship Component

Students may complete a 3-credit internship as part of their experiential credit. The internship will consist of a minimum of 150 hours of work over a period of 8-12 weeks at an approved host institution. The institution should be located either overseas or have an international focus. Major in International Management students who are enrolled in minor concentrations in the Faculty of Arts may choose to complete internship courses in the Faculty of Arts. Please see "Faculty of Arts Internship Program" or refer to the Arts Internships website for requirements, including hours and weeks required and CGPA cut-offs.

BUSA 497	(3)	Internship in International Business

OR

Research Component

BUSA 401	(3)	Independent Studies in International Business

NOTE: There are CGPA requirements for exchanges and internship courses. Students without the minimum CGPA requirement must consult the Major in International Management Adviser in the BCom office to arrange for an alternative.

10.8.8.6 Bachelor of Commerce (B.Com.) - Major Labour-Management Relations and Human Resources (30 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

This 30-credit Major provides students with a general understanding of employer-employee relations and human resources, including labour unions, laws that regulate the employment relationship, and human resource policies and practices.

Students acquire knowledge in various required aspects of labour relations, labour markets, and human resources. The program provides flexibility for students to take a wide range of courses related to the required topics in the disciplines of law, organization behaviour, sociology, economics, and industrial relations.

Required Courses (12 credits)

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 494	(3)	Labour Law
INDR 496	(3)	Collective Bargaining
ORGB 423	(3)	Human Resources Management

Complementary Courses (18 credits)

Selected from:

ECON 306	(3)	Labour Markets and Wages
INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	International Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 495	(3)	Labour Relations: Public Sector
INDR 497	(3)	Contract Administration
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management
SOCI 312	(3)	Sociology of Work and Industry
SOCI 321	(3)	Gender and Work

10.8.8.7 Bachelor of Commerce (B.Com.) — Major Marketing (30 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

This 30-credit Major is designed to provide students with a strong background in marketing to prepare them for the wide variety of marketing careers available. The Major is most appropriate for those students seeking a career in brand management, small business marketing, selling and sales management, and business-to-business marketing.

Required Courses (15 credits)

MRKT 354	(3)	Marketing Management 2
MRKT 357	(3)	Marketing Planning 1
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management

Complementary Courses (15 credits)

Five courses selected from:

BUSA 464	(3)	Management of Small Enterprises
MRKT 351	(3)	Marketing and Society
MRKT 355	(3)	Services Marketing
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 455	(3)	Sales Management
MRKT 456	(3)	Business to Business Marketing
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

10.8.8.8 Bachelor of Commerce (B.Com.) - Major Concentration Mathematics for Management Students (39 credits)

Mentor: Professor A. Hundemer; Department of Mathematics and Statistics, Faculty of Science.

This program is comprised of 39 credits.

Students entering the Major Concentration in Mathematics are normally expected to have completed MATH 133, MATH 140, and MATH 141 or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 39 credits required by the program.

Required Courses (30 credits)

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
MGSC 373	(3)	Operations Research 1

* Credits for MATH 324 are counted toward Management Core, where they replace MGCR 271. MGCR 271 cannot be taken for credit after credit for MATH 324 has been obtained.

Complementary Courses (9 credits)

6 credits selected from:

MATH 204**	(3)	Principles of Statistics 2
MATH 316	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 340	(3)	Discrete Structures 2
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423***	(3)	Regression and Analysis of Variance

3 credits selected from:

MGSC 372***	(3)	Advanced Business Statistics
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

** MATH 204 cannot be taken for credit after credit for MATH 324 has been obtained. The two courses can be taken concurrently. Students should consult the rules for credit for Statistics courses in the Course Overlap section.

*** MGSC 372 and MATH 423 cannot both be taken for program credit.

10.8.8.9 Bachelor of Commerce (B.Com.) - Major Organizational Behavior (30 credits)

The purpose of this program is to enable students to analyze and influence repeated patterns of action in groups and organizations. Required courses in leadership, human resource management, and team management introduce students to concepts of management at multiple levels of the organization. Additionally, to provide a foundational disciplinary view, students are required to specialize in one of the following social science disciplines: psychology, sociology, or anthropology.

Required Courses (9 credits)

ORGB 321	(3)	Leadership
ORGB 420	(3)	Managing Organizational Teams
ORGB 423	(3)	Human Resources Management

Complementary Courses (21 credits)

9 credits from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 496	(3)	Collective Bargaining
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 409	(3)	Organizational Research Methods
ORGB 421	(3)	Managing Organizational Change
ORGB 429D1	(3)	Organizational Behaviour for Course Counsellors
ORGB 429D2	(3)	Organizational Behaviour for Course Counsellors
ORGB 434	(3)	Topics in Organizational Behaviour 1

ORGB 440 (3) Career Theory and Development

12 credits from one of the following Specialty Areas*.

*Students select one of the three specialty areas and take 12 credits from that area. At least two courses must be above the 200 level. Individualized or customized programs are possible upon consultation with an area advisor.

1) Psychology

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 406	(3)	Psychological Tests
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships

2) Sociology

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 235	(3)	Technology and Society
SOCI 250	(3)	Social Problems
SOCI 307	(3)	Sociology of Globalization
SOCI 312	(3)	Sociology of Work and Industry
SOCI 321	(3)	Gender and Work
SOCI 330	(3)	Sociological Theory
SOCI 377	(3)	Deviance
SOCI 386	(3)	Contemporary Social Movements
SOCI 420	(3)	Organizations
SOCI 424	(3)	Networks and Social Structures

3) Anthropology

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 303	(3)	Ethnographies of Post-socialism
ANTH 318	(3)	Globalization and Religion
ANTH 320	(3)	Social Evolution
ANTH 342	(3)	Gender, Inequality and the State

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 358	(3)	The Process of Anthropological Research
ANTH 401	(3)	Comparative Anthropology
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 440	(3)	Cognitive Anthropology

10.8.8.10 Bachelor of Commerce (B.Com.) - Major Concentration Statistics for Management Students (39 credits)

Mentor: Professor R. Steele; Department of Mathematics and Statistics, Faculty of Science

This program is comprised of 39 credits.

Students entering the Major concentration in Statistics are normally expected to have completed MATH 133, MATH 140, and MATH 141 or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 39 credits required by the program.

Required Courses (27 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance
MGSC 373	(3)	Operations Research 1

* Credits for MATH 324 are counted toward Management Core, where they replace MGCR 271. MGCR 271 cannot be taken for credit after credit for MATH 324 has been obtained.

Complementary Courses (12 credits)

6 credits selected from:

MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

6 credits selected from:

MATH 204**	(3)	Principles of Statistics 2
MATH 315	(3)	Ordinary Differential Equations
MATH 340	(3)	Discrete Structures 2
MATH 410	(3)	Majors Project
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

** MATH 204 cannot be taken for credit after credit for MATH 324 has been obtained. The two courses can be taken concurrently. Students should consult the rules for credit for Statistics courses in the course overlap section.

10.8.9 Honours

An Honours program is available in Economics and in Investment Management. Joint Honours programs are available in Economics and Accounting and in Economics and Finance.

The difference between the Honours and Major programs is not one of quantity but rather of quality, the Honours program involving study in greater depth. Students normally register for the Honours programs in U1 but special arrangements may be made for students wishing to enter the program at the beginning of U2.

Graduation with an Honours standing normally requires a minimum CGPA of 3.00 and an average of 3.00 in the specified courses of the Honours programs, although academic units may set higher requirements for their program GPA. The minimum grade acceptable in an Honours course is B-, although academic units may set a higher requirement for grades in their program.

Honours students who satisfy the 6-credit Statistics requirement by taking MGCR 271 and MGSC 372 (or ECON 227D1 & ECON 227D2) must complete ECON 468 and ECON 469 to fulfil the program requirements in Economics for the following programs: Honours in Economics for Management Students, Joint Honours in Economics and Accounting, and Joint Honours in Economics and Finance.

10.8.9.1 Bachelor of Commerce (B.Com.) - Honours Economics (42 credits)

Please consult the Economics Department website at: <http://www.mcgill.ca/economics>.

This program is comprised of 42 credits of Honours Economics courses (9 credits of which are counted as core credits). Graduation with an Honours standing requires a minimum CGPA of 3.00 and a minimum program GPA of 3.00.

Calculus 1 and 2 are required for entering this Honours program. Please see section "120-credit program, Freshman course distribution" for a detailed explanation regarding Calculus 1 and 2. It is also important to check on its Statistics requirements, which are listed on the Department's website at: <http://www.mcgill.ca/economics>.

Required Courses (27 credits)

ECON 250D1*	(3)	Introduction to Economic Theory: Honours
ECON 250D2*	(3)	Introduction to Economic Theory: Honours
ECON 257D1**	(3)	Economic Statistics - Honours
ECON 257D2**	(3)	Economic Statistics - Honours
ECON 352D1***	(3)	Macroeconomics - Honours
ECON 352D2***	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

* 3 of the 6 credits for ECON 250D1/D2 exempt MGCR 293 in Management Core.

** 3 of the 6 credits for ECON 257D1/D2 exempt MGCR 271 in Management Core.

*** 3 of the 6 credits for ECON 352D1/D2 exempt ECON 295 in Management Core.

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

and 12 credits of Economics courses at the 300, 400, or 500 level, approved by an Honours adviser. Normally at least 9 of the 12 will be at the 400 or 500 level.

Note: Honours students are not permitted to register for general Economics courses where an Honours course in the same field is offered.

10.8.9.2 Bachelor of Commerce (B.Com.) - Honours Investment Management (45 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The B.Com. Honours Investment Management prepares students for a career in financial asset management, either on the buy side working with active portfolio allocation or on the sell side, working for brokerage firms. The program gives students a rigorous training in accounting, statistics, and finance.

The program enables students to analyze financial statements, perform company valuations, construct efficient portfolios with appropriate risk profiles, and manage risk using dynamic trading strategies and derivative instruments.

Students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.0. A grade of B- or better must be achieved in all courses counted toward this program. Students who do not satisfy all the requirements of the Honours program may still receive a Major in Finance.

The B.Com. Honours Investment Management is a limited enrolment program and is by application only for students entering their U2 year. For admission requirements, please refer to the website or contact the BCom Student Affairs Office.

Required Courses (45 credits)

ACCT 354	(3)	Financial Statement Analysis
ACCT 452	(3)	Financial Reporting Valuation
FINE 342	(3)	Finance 2
FINE 440	(3)	Honours Investment Management Research Project 1
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 450	(3)	Honours Investment Management Research Project 2
FINE 451	(3)	Fixed Income Analysis
FINE 455	(3)	Alternative Investments
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
MGSC 372	(3)	Advanced Business Statistics

10.8.9.3 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Accounting (54 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

Mentor in Economics: Professors M. Sinitsyn, E. Strumpf and J-M Dufour; Department of Economics, Faculty of Arts

Please consult the Economics Department website.

The B.Com. Joint Honours in Economics and Accounting requires the completion of 30 specified credits of Honours courses listed in the Economics Honours Program (9 credits of which are counted as core credits) and 24 specified credits for Accounting. This program is designed to take advantage of both McGill's Accounting and Economics course offerings to produce a student who is well trained in these two complementary areas.

Calculus 1 and 2 are required for entering this Honours program. Please consult the "120-credit program, Freshman course distribution" section for a detailed explanation regarding Calculus 1 and 2. It is also important to check on its statistics requirements, which are listed on the Department's website.

To earn the Joint Honours in Economics and Accounting designation, students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Students must achieve a grade of B- or better in all Accounting courses.

Required Courses (39 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 455	(3)	Development of Accounting Thought
ECON 250D1*	(3)	Introduction to Economic Theory: Honours
ECON 250D2*	(3)	Introduction to Economic Theory: Honours
ECON 257D1**	(3)	Economic Statistics - Honours
ECON 257D2**	(3)	Economic Statistics - Honours
ECON 352D1***	(3)	Macroeconomics - Honours

ECON 352D2***	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours
ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours

* 3 of the 6 credits for ECON 250D1/D2 exempt MGCR 293 in Management Core.

** 3 of the 6 credits for ECON 257D1/D2 exempt MGCR 271 in Management Core.

*** 3 of the 6 credits for ECON 352D1/D2 exempt ECON 295 in Management Core.

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits from the following:

ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

10.8.9.4 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Finance (54 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

Mentors in Economics: Professors M. Sinitsyn, E. Strumpf, and J-M Dufour; Department of Economics, Faculty of Arts

Please consult the Economics department website.

The B.Com. Joint Honours in Economics and Finance requires the completion of 30 credits of Honours Economics courses (9 credits of which are counted as core credits) and 24 credits in Finance. This program is designed to take advantage of both McGill's Finance and Economics course offerings to produce a student who is well trained in these two complementary areas.

Calculus 1 and 2 are required for entering this Honours program. Please consult the section "120-credit program, Freshman course distribution" for a detailed explanation regarding Calculus 1 and 2. It is also important to check on its statistics requirements, which are listed on the Department's website at <http://www.mcgill.ca/economics>.

To earn the Honours in Economics and Finance designation, students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Students must achieve a grade of B- or better in all Finance courses.

Required Courses (39 credits)

ECON 250D1*	(3)	Introduction to Economic Theory: Honours
ECON 250D2*	(3)	Introduction to Economic Theory: Honours
ECON 257D1**	(3)	Economic Statistics - Honours
ECON 257D2**	(3)	Economic Statistics - Honours
ECON 352D1***	(3)	Macroeconomics - Honours
ECON 352D2***	(3)	Macroeconomics - Honours
ECON 450D1	(3)	Advanced Economic Theory - Honours

ECON 450D2	(3)	Advanced Economic Theory - Honours
ECON 468	(3)	Econometrics 1 - Honours
FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 547	(3)	Advanced Finance Seminar

* 3 of the 6 credits for ECON 250D1/D2 exempt MGCR 293 in Management Core.

** 3 of the 6 credits for ECON 257D1/D2 exempt MGCR 271 in Management Core.

*** 3 of the 6 credits for ECON 352D1/D2 exempt ECON 295 in Management Core.

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits from the following:

FINE 434	(3)	Topics in Finance 1
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments

10.9 Academic Staff

Academic Staff

Adler, Nancy J.; B.A., M.B.A., Ph.D.(Calif.-LA); Professor, Organizational Behaviour (*Samuel Bronfman Chair in Management*)

Animesh, Animesh; B.A.(Delhi), M.I.S.(Carn. Mell), Ph.D.(Md.); Assistant Professor, Information Systems

Banerjee, Mallika; B.S.(Calc.), B.A.(Exe.), M.Phil.(Camb.), CTA(The Chartered Institute of Taxation, London), Ph.D. Candidate(C'nell); Assistant Professor (Special Category), Organizational Behaviour

Barbulescu, Roxana; B.A.(Stan.), M.S., Ph.D.(INSEAD); Assistant Professor, Organizational Behaviour

Barras, Laurent; B.B.S., M.E.F. & Ph.D.(HEC-U. of Geneva); Assistant Professor, Finance

Bassellier, Geneviève; B.Com., M.Sc.(HEC), Ph.D.(Br. Col.); Associate Professor, Information Systems

Béchara, Antoine; Ph.D.(Tor.); Professor & Scientist (*joint appt. with Medicine and Management*)

Betermier, Sebastien; A.B.(Calif., Davis), M.S., Ph.D.(Calif., Berk.), Assistant Professor, Finance

Bouvard, Mattieu; M.Sc.(HEC, Paris), Ph.D.(Toulouse); Assistant Professor, Finance

Boyaci, Tamer; B.S.(Middle East Tech., Turkey), M.S., Ph.D.(Col.); Associate Professor, Operations Management

Breitner, Leslie; B.A.(Wisc.), M.B.A.(Simmons), D.B.A.(Boston); Faculty Lecturer, Accounting

Academic Staff

Brenner, Reuven; B.Sc., M.A., Ph.D.(Hebrew); Professor, Finance (*Repap Professor of Economics*)

Carrieri, Francesca; Laurea-Law(U. di Bari), Ph.D.(USC); Associate Professor, Finance

Cecere, Ralph; B.Com., G.D.P.A.(McG.); Faculty Lecturer, Accounting

Chakrabarti, Abhirup; B.S.(Calc.), M.S.(Singapore, NUS), Ph.D.(Duke); Assistant Professor, Strategy and Organization

Chaudhury, Mohammed; B.A., M.A.(Dhaka), M.A.(Wat.), Ph.D.(S. Fraser); Faculty Lecturer, Finance

Chauvin, Louis; B.A.(Ott.), M.A., Ph.D.(C'dia); Faculty Lecturer, Strategy and Organization

Chaxel, Anne-Sophie; M.Sc.(HEC Paris), M.A.(Paris Dauphine), Ph.D.(C'nell); Assistant Professor, Marketing

Cohen, Lisa; B.A.(Kalamazoo), M.B.A.(Duke), Ph.D.(Cailf., Berk.); Assistant Professor, Organizational Behaviour

Croitoru, Benjamin; DIAF(Institut de Statistique de l'Université Pierre et Marie Curie), Ph.D.(Penn.); Associate Professor, Finance

David, Robert; B.Eng., M.B.A.(McG.), Ph.D.(C'nell); Associate Professor, Strategy and Organization

De Motta, Adolfo; B.A.(Universidad De Valencia, Spain), Ph.D.(MIT); Associate Professor, Finance

Di Pietro, Vadim; B.Eng.(McG.), M.A.(Tor.), Ph.D.(N'western); Faculty Lecturer, Finance

Donovan, Richard G.; B.Com.(McG.), G.D.I.T.(C'dia); Faculty Lecturer, Information Systems

Dotzel, Thomas; M.B.A.(Texas, Arlington), Ph.D.(Texas A & M); Assistant Professor, Marketing

Drury, Donald; B.Com, M.B.A.(McM.), Ph.D.(N'western); Emeritus Professor, Accounting

Dubé, Laurette; B.Sc.(Laval), M.B.A.(HEC), M.P.S., Ph.D.(C'nell); Professor, Marketing (*James McGill Professor*)

Ericsson, Jan; M.Sc., Ph.D.(Stockholm School of Economics); Associate Professor, Finance

Errunza, Vihang R.; B.S., B.S.(Tech.)(Bom.), M.S., Ph.D.(Calif., Berk.); Professor, Finance (*Bank of Montreal Professor of Finance and Banking*)

Etemad, Hamid; M.Eng.(Tehran), M.Sc., M.B.A., Ph.D.(Calif., Berk.); Associate Professor, Marketing

Etzion, Dror; B.Sc.(Ben Gurion), M.Sc.(Tel Aviv), Ph.D.(IESE-Univ. of Navarra); Assistant Professor, Strategy and Organization

Faraj, Samer; B.S.(Milwaukee), M.A.(MIT), Ph.D.(Boston); Associate Professor, Information Systems (*CRC Chair – SSHRC – Tier 2*)

Farber, David; B.A.(SUNY), M.B.A.(CUNY), M.S., Ph.D.(C'nell); Associate Professor, Accounting

Fortin, Steve; Acct. Sci.(UQAR), Ph.D.(Wat.); Associate Professor, Accounting

Gagnon, Suzanne; B.A.(Br. Col.), M.Sc.(Oxf.), Ph.D.(Lanc.); Assistant Professor, Organizational Behaviour

Gialloredo, Louis P.; B.A.(W. Ont.), M.B.A., LL.M.(McG.); Faculty Lecturer, Marketing (*Director – Power Corp. Int'l Executive Institute*)

Goffin, Jean-Louis; B.Eng., M.Sc.(Brussels), M.Sc., Ph.D.(Calif., Berk.); Emeritus Professor, Operations Management

Goldsmann, Larry; B.Com.(C'dia), D.P.A.(McG.), C.A.; Faculty Lecturer, Accounting

Goyenko, Ruslan; B.S.(Donetsk-Ukraine), M.A.(C.E.U., Budapest), M.S.(Siena-Italy), M.B.A., Ph.D.(Ind.); Assistant Professor, Finance

Graham, Margaret; M.A., M.B.A., Ph.D.(Harv.); Associate Professor, Strategy and Organization

Gumus, Mehmet; B.S.(Turkey), M.S., M.A., Ph.D.(Mich.); Assistant Professor, Operations Management

Hammami, Larbi; B.Com., M.B.A.(Laval); Faculty Lecturer, Finance

Han, Kunsoo; B.S., M.S.(KAIST), Ph.D.(Ohio St.); Assistant Professor, Information Systems

Hart, Derek; B.Sc., M.B.A.(McG.), M.Sc.(C'dia); Faculty Lecturer, Operations Management

Hebdon, Robert; B.A., M.A., Ph.D.(Tor.); Professor, Organizational Behaviour – Industrial Relations (Associate Dean – Student Affairs)

Hewlin, Patricia; B.A.(Binghamton Univ.), M.B.A., Ph.D.(Stern. N.Y.); Assistant Professor, Organizational Behaviour

Huising, Ruthanne; B.A.(Alta.), M.Sc.(LSE), Ph.D.(MIT); Assistant Professor, Organizational Behaviour

Hwang, Min Ha; B.S.(Seoul Nat. Univ.), Ph.D.(MIT), Ph.D.(Anderson-UCLA); Assistant Professor, Marketing

Jaeger, Alfred M.; B.Sc.(N'western), M.B.A., Ph.D.(Stan.); Associate Professor, Organizational Behaviour

Jo, Myung-Soo; B.Com.(Hankuyk U., Korea), M.B.A.(Mich.), M.S.(Ill.), Ph.D.(Colo.); Associate Professor, Marketing

Jørgensen, Jan; B.A., M.A.(N. Carolina, Chapel Hill), Ph.D.(McG.); Associate Professor, Strategy and Organization

Kalyta, Paul; B.Com.(Kiev Nat. Univ., Ukraine), M.B.A., Ph.D.(C'dia); Assistant Professor, Accounting

Kanungo, Rabindra N.; B.A., M.A.(Patna), Ph.D.(McG.); Professor Emeritus, Organizational Behaviour

Academic Staff

Kondo, Jiro; B.A.(Princ.), Ph.D.(MIT); Assistant Professor, Finance

Kucukyazici, Beste; B.Sc.(Marmara), M.Sc.(Yeditepe), Ph.D. 1/Postdoc Strategic Training Program(CIHR – Health Informatics – CHPSTP), Ph.D. 2(McG.); Assistant Professor, Operations Management

Lapointe, Liette; B.A., M.Sc.(Montr.), Ph.D.(HEC); Associate Professor, Information Systems

Lee, Mary Dean; B.A.(Eckerd), M.Ed.(Temple), M.A.(S. Florida), Ph.D.(Yale); Professor, Organizational Behaviour

Levy, Philippe; B.Com.(C'dia), D.P.A., M.B.A.(McG.); Faculty Lecturer, Accounting

Li, Shanling; M.S.(Georgia), Ph.D.(Texas); Associate Professor, Operations Management (*Associate Dean, Research & Int'l Rels.*)

Li, Yuan; B.A., M.A.(Tsinghua Univ., Beijing), Ph.D.(USC); Assistant Professor, Strategy and Organization

Loulou, Richard J.; M.Sc., Ph.D.(Calif., Berk.); Professor Emeritus, Operations Management

Mackalski, Robert; B.Sc.(Bran.), M.B.A.(McG.), Ph.D. Candidate(McG.); Faculty Lecturer, Marketing

Madan, Sujata; B.S.(MIT), M.B.A.(Indian Inst. Manag.); Faculty Lecturer, Finance

Maguire, Steve; B.Sc.(Qu.), M.B.A.(Br. Col.), Ph.D.(HEC); Associate Professor, Strategy and Organization (*Director – Desautels Institute of Integrated Management*)

Malkhozov, Aytek; DEUG(Strasbourg), DEA(Paris), M.Sc.(LSE); Ph.D. Assistant Professor, Finance

Mathur, Sameer; B.E.(IIT), M.Sc.(Ill.-Urbana-Champaign), M.Sc., Ph.D.(Carn. Mell); Assistant Professor, Marketing

McCully, Phillip; (Stirling Univ., Scotland); Faculty Lecturer, Strategy and Organization/Entrepreneurship

Mintzberg, Henry; B.Eng.(McG.), B.A.(Sir G. Wms.), S.M., Ph.D.(MIT); Professor, Strategy and Organization (*John Cleghorn Professor of Management Studies*)

Mishra, Saurabh; B.A., M.A.(Delhi), M.B.A., Ph.D.(Ind.); Assistant Professor, Marketing

Moore, Karl; B.Sc.(Ambassador U.), M.B.A.(USC), Ph.D.(York); Associate Professor (*part-time*), Marketing, Strategy, and Organization

Mukherjee, Ashesh; B.Eng.(Jad.), M.B.A.(Indian Inst. Manag.), Ph.D.(Texas); Associate Professor, Marketing

Okhmatovskiy, Ilya; B.A. Equivalent (Moscow St.), M.S. Equivalent (Acad. of Nat. Economy), Ph.D.(USC); Assistant Professor, Strategy and Organization

Perez-Aleman, Paola; B.Sc.(Calif., Berk.), Ph.D.(MIT); Associate Professor, Strategy and Organization

Pimentel, Erica; BCom, C.A.(McG.), CICA (pending); Faculty Lecturer, Accounting

Pinsonneault, Alain; B.Com.(C'dia), M.Sc.(HEC), Ph.D.(Calif., Irvine); Professor, Information Systems (*IMASCO Chair in Management Information Systems*) (*James McGill Professor*), FRSC

Qiu, Chun; B.A.(Huazhong), M.A.(S. Fraser), Ph.D.(Alta.); Assistant Professor, Marketing

Ramaprasad, Jui; B.S.(USC), Ph.D.(Calif., Irvine); Assistant Professor, Information Systems

Ray, Saibal; B.E.(Jad.), M.E.(Asian IT), Ph.D.(Wat.); Associate Professor, Operations Management (*Director – Ph.D. Program*)

Sarigöllü, Emine; B.A., M.B.A.(Bogazici), M.A., Ph.D.(Penn.); Associate Professor, Marketing

Sarkissian, Sergei; M.S.(Calif., Berk.), Ph.D.(Wash.); Associate Professor, Finance

Scott, Julia; M.B.A.(York), C.A., C.F.A.(W. Ont.); Faculty Lecturer, Accounting (*Director – CA Program*)

Singer, Zvi; B.A.(Tel Aviv), M.B.A.(Wash.), Ph.D.(Calif., Berk.); Assistant Professor, Accounting

Smith, Brian E.; B.A., M.A.(Dublin), M.Sc.(Alta.), Ph.D.(Qu.); Faculty Lecturer, Operations Management

Struben, Jeroen; M.Sc.(Delft Univ. of Tech., Netherlands), Ph.D.(MIT); Assistant Professor, Strategy and Organization

Todd, Peter A.; B.Com.(McG.), Ph.D.(Br. Col.); Dean (*James McGill Professor*)

Toulan, Omar; B.Sc.(G'town), Ph.D.(MIT); Associate Professor, Strategy and Organization

Tsang, Desmond; B.Com., M.A.(Tor.), M.S., Ph.D.(Calif., Berk.); Assistant Professor, Accounting

Vaast, Emmanuelle; M.A.(Paris-Dauphine), M.S.(École Normale Supérieure de Cachan, France), M.S.(École Centrale, ESCP, France), Ph.D.(École Poly., France); Associate Professor, Information Systems

Vaidyanathan, Ramnath; B.Tech.(IIT, Madras), Ph.D.(Penn.); Assistant Professor, Operations Management

Vakratsas, Demetrios; B.Sc.(Aristotle), M.Sc., Ph.D.(Texas); Associate Professor, Marketing

Verter, Vedat; B.S., M.S.(Bogazici), Ph.D.(Bilkent); Associate Professor, Operations Management

Academic Staff

Vit, Gregory; B.Com.(McG.), M.B.A.(C'dia), Ph.D.(Brad.); Associate Professor (*part-time*), Strategy and Organization (*Director – Dobson Centre for Entrepreneurial Studies*)

Vough, Heather; A.B.(Wash.), Ph.D.(Ill.-Urbana-Champaign); Assistant Professor, Organizational Behaviour

Wang, Dadi; B.E.(Tsinghua), Ph.D. Candidate(Mich.); Assistant Professor, Operations Management

Westgate, Chantal; M.B.A.(McM.); Faculty Lecturer, Organizational Behaviour-Industrial Relations

Whitmore, G. Alex; B.Sc.(Manit.), M.Sc., Ph.D.(Minn.); Professor Emeritus, Operations Management

Yalovsky, Morty; B.Sc., M.Sc., Ph.D.(McG.); Associate Professor, Operations Management (*Associate Dean Academic*)

Younkin, Peter; B.A.(Col.), M.A., Ph.D.(Calif., Berk.); Assistant Professor, Strategy and Organization

Zabowski, Glenn; B.Com., M.B.A.(McG.); Faculty Lecturer, Operations Management (*Director – BCom Program*)

Zhang, Jingjing; M.A.(Boston), M.Sc.(Ill.-Chic.), Ph.D.(N'western); Assistant Professor, Accounting

Zhang, Sanjian; B.Sc.(Shanghai Int'l), M.B.A.(Catholic Univ. of Leuven), Ph.D.(Calif., Irvine); Assistant Professor, Accounting

11 Schulich School of Music

11.1 About the Faculty

McGill's Schulich School of Music is the largest university-based school for professional musical training and music research in Canada.

McGill's Schulich School of Music is renowned for its orchestral, choral, opera, jazz, chamber, contemporary, and early music programs, and for its award-winning creative and research work in composition, music theory, musicology, music education, sound recording, and music technology. Pollack Hall (capacity: 600), Redpath Hall (capacity: 300 and housing the University organ) and Tanna Schulich Hall (capacity: 187) are among the busiest and best concert venues in Montreal. The intimate Clara Lichtenstein Hall (capacity: 80) is scheduled for renovation in the summer of 2013. In addition, facilities include the Wirth Opera Studio (an opera rehearsal room), and the Multimedia Complex Suite, including the Multimedia Room (a scoring stage/acoustical research lab), three isolation booths, a small recording studio, and three control rooms of different sizes. The three floors of the Marvin Duchow Music Library contain well over 100,000 scores, recordings, books, and periodicals; in addition, the Gertrude Whitley Performance Library has performing parts for over 6,000 titles.

Both old and new buildings house labs for numerous specialized functions: digital composition and electronic music, music education research, multi-channel sound recording, music perception and cognition, sound processing and control, computational modelling, and more. There are state-of-the-art classrooms, teaching studios, and over 100 practice rooms. The Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT) is an inter-faculty, inter-university, international consortium of scholars that brings together researchers in music, sound recording, music technology, psychology, neuroscience, engineering, and medicine (www.cirmmt.mcgill.ca).

Current student enrolment is approximately 550 at the undergraduate level and approximately 250 at the graduate level. Teaching staff includes 60 full-time and over 140 part-time members. Students, faculty, and staff play major roles in Montreal's vibrant cultural scene, presenting approximately 700 concerts and events annually, as well as master classes, lectures, and symposia, all enhanced by active music student societies, a booking office, and devoted administrative and support staff.

11.2 History of the Faculty

Founded as the Conservatorium of Music in 1904, and incorporated as a Faculty in 1920, the School moved to its current location in the impressive and historic Strathcona Music Building (formerly the main section of Royal Victoria College) in 1972. It was renamed the Schulich School of Music in 2005 in honour of benefactor Seymour Schulich. During the 2004–2005 centennial season, the School added a new eight-storey building that houses the Marvin Duchow Music Library, the Gertrude Whitley Performance Library, Tanna Schulich Hall, CIRMMT (the Centre for Interdisciplinary Research in Music Media and Technology), the MMR (Multimedia Room), the Wirth Opera Studio, and administrative offices.

11.3 Academic Staff

11.3.1 Department of Music Research

Chair

Neidhöfer, Christoph

11.3.1.1 Composition Area

Composition

Bouliane, Denys; B.Mus., M.Mus.(Laval), Graduate, Hochschule für Musik(Hamburg); Associate Professor; Composition Area Coordinator, Composition, Orchestration

Cherney, Brian; B.Mus., M.Mus., Ph.D.(Tor.); Professor; Composition, Theory and Analysis, History and Literature

Ferguson, Sean; B.Mus.(Alta.), M.Mus., D.Mus.(McG.); Associate Professor; Composition; Co-Director, Digital Composition Studios

Harman, Chris Paul; Assistant Professor; Composition

Hui, Melissa; B.Mus.(Br. Col.), M.F.A.(Calif. Inst. of Arts), D.M.A./M.M.A.(Yale); Associate Professor; Composition

Leroux, Philippe; Premier Prix(Conservatoire national supérieur de musique et de danse de Paris); Associate Professor; Composition; Co-Director, Digital Composition Studios

Lesage, Jean; Concours, Diplôme d'études supérieures(Conservatoire de Montréal); Associate Professor; Composition

Rea, John; B.Mus.(Wayne), M.Mus.(Tor.), M.F.A., Ph.D.(Princ.); Professor; Composition, Theory and Analysis

11.3.1.2 Music Education Area

Music Education

Cossette, Isabelle; Premier Prix(Conservatoire du Québec); M.Mus.(McG.), D.Mus.(Montr.); Assistant Professor; Music Education

Lorenzino, Lisa; B.Mus.(Tor.), B.Ed.(Sask.), M.A.(McG.), Ph.D.(Alta); Faculty Lecturer; Music Education Area Chair; Music Education

Wapnick, Joel; B.A.(NYU), M.A.(SUNY), M.F.A.(Sarah L.), Ed.D.(Syrac.); Professor; Director, Music Education Research Lab; General Music Techniques

11.3.1.3 Music Theory Area

Music Theory

Biamonte, Nicole; B.F.A.(SUNY Purchase), Ph.D., M.Phil.(Yale); Assistant Professor; Theory Area Chair, Theory and Analysis

Caplin, William; B.M.(USC), M.A., Ph.D.(Chic.); Professor; Theory and Analysis (*James McGill Professor*)

Hasegawa, Robert; B.A.(Bard.Col.), M.A.(Calif.), Ph.D.(Harv.); Assistant Professor; Theory and Analysis

Neidhöfer, Christoph; Dipl.(Musikhochschule Basel), Ph.D.(Harv.); Associate Professor; Theory and Analysis, Composition

Rusch, René; B.Mus.(Lawrence), M.A., M.Mus.(Mannes), Ph.D.(Mich.); Assistant Professor; Theory and Analysis

Schubert, Peter; B.A., M.A., Ph.D.(Col.); Professor; Theory and Analysis

Wild, Jonathan; B.Mus., M.A.(McG.), Ph.D.(Harv.); Assistant Professor; Theory and Analysis, Composition

11.3.1.4 Music Technology Area

Music Technology

Depalle, Philippe; B.Sc.(Paris XI & ENS Cachan), D.E.A.(Le Mans & ENS Cachan), Ph.D.(Le Mans & IRCAM); Associate Professor; Music Technology Area Chair; Music Technology

Fujinaga, Ichiro; B.Mus., B.Sc.(Alta.), M.A., Ph.D.(McG.); Associate Professor; Music Technology

McAdams, Stephen; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris); Professor; Music Technology (*Canada Research Chair*)

Music Technology

Mulder, Axel; Drs.(Rijks Universiteit Groningen), Ph.D.(S. Fraser); Adjunct Professor

Scavone, Gary; B.A., B.S.(Syrac.), M.S., Ph.D.(Stan.); Associate Professor; Music Technology

Verge, Marc-Pierre; B.A., M.Sc.(Laval), Ph.D.(Eindhoven); Adjunct Professor

Wanderley, Marcelo; B.Eng.(UFPR), M.Eng.(UFSC), Ph.D.(Paris VI & IRCAM); Associate Professor; Music Technology, Gestural Control of Sound Synthesis; Director, CIRMMT (*William Dawson Scholar*)

11.3.1.5 Musicianship Area

Musicianship

Asly, Monica; B.Mus.(McG.); Faculty Lecturer; Musicianship

Davidson, Thomas; B.Mus.(Qu.), M.Mus.(McG.), Cert. of Advanced Study(R.C.M., Lond.), A.R.C.M., L.T.C.L.; Assistant Professor; Musicianship Area Chair; Musicianship, Piano; Keyboard Proficiency Coordinator

Mariner, Justin; M.Mus., D.Mus.(McG.); Assistant Professor; Musicianship

11.3.1.6 Musicology Area

Musicology

Barg, Lisa; B.A.(Antioch), M.A., Ph.D.(SUNY, Stony Brook); Assistant Professor; Musicology Area Chair; History and Literature

Beghin, Tom; Diplôme Supérieur(Louvain), M.A., D.M.A.(C'nell); Associate Professor; Fortepiano, History and Literature

Brackett, David; B.A.(Calif.-Santa Cruz), M.M.(New England Cons.), D.M.A.(C'nell); Associate Professor; History and Literature

Cumming, Julie; B.A.(Col.), M.A., Ph.D.(Calif., Berk.); Associate Professor; History and Literature

Huebner, Steven; B.A., B.Mus., L.Mus.(McG.), M.F.A., Ph.D.(Princ.); Professor; History and Literature (*James McGill Professor*)

Kok, Roe-Min; B.Mus.(Texas), M.A.(Duke), Ph.D.(Harv.); Associate Professor; History and Literature

Lih, Lars; B.A.(Yale), B.Phil.(Oxf.), Ph.D.(Princ.); Adjunct Professor; History and Literature

Montagnier, Jean-Paul; B.A., M.A.(Lyon), Ph.D.(Duke); Adjunct Professor; History and Literature

Stubley, Eleanor; B.Mus.(Tor.), M.Mus.(Bran.), Ph.D.(Ill.); Associate Professor; History and Literature

Whitesell, Lloyd; B.A.(Minn.), M.A., Ph.D.(SUNY, Stony Brook); Associate Professor; History and Literature

11.3.1.7 Sound Recording Area

Sound Recording

Bech, Soren; M.Sc., Ph.D.(Technical Univ. of Denmark); Senior Technology Specialist, Bang & Olufsen; Adjunct Professor; Sound Recording

Begault, Durand; B.A.(Calif.-Santa Cruz), M.F.A.(Mills College), Ph.D.(Calif.-San Diego); Human Factors Research and Technology Division, NASA Ames Research Center; Adjunct Professor; Sound Recording

Braasch, Jonas; Dipl. Physics(Dortmund), Doct-Eng, Ph.D.(Bochum); Adjunct Professor; Sound Recording

de Francisco, Martha; Diplom-Tonmeister(Detmold); Associate Professor; Sound Recording

Epstein, Steven; Senior Executive Producer, Sony Classical; Adjunct Professor; Sound Recording

King, Richard; B.Mus.(Dal.), M.Mus.(McG.); Associate Professor; Sound Recording Area Chair; Sound Recording

Martens, William; B.A.(Miami), Ph.D.(N'western); Adjunct Professor; Sound Recording

Massenburg, George; President and Owner, GML Inc.; Associate Professor; Sound Recording

Waltl, Herbert; mediaHYPERIUM, Inc.; Adjunct Professor

Woszczyk, Wieslaw; M.A., Ph.D.(F. Chopin Academy of Music, Warsaw); Professor; Director, Recording Studio; Sound Recording (*James McGill Professor*)

11.3.1.8 Associate Members**Associate Members**

Guastavino, Catherine; School of Information Studies

Levitin, Daniel; Dept. of Psychology

Palmer, Caroline; Dept. of Psychology

11.3.2 Department of Performance**Chair**

Lesage, Jean

11.3.2.1 Brass Area**French Horn**

Derome, Denys; L.Mus.(McG.); Montreal Symphony Orchestra; Instructor

Gaudreault, Jean; LL.L.(Montr.), Graduate, Conservatoire de musique du Québec; Montreal Symphony Orchestra; Assistant Professor

Zirbel, John; B.Mus.(Wisc.); Principal Horn, Montreal Symphony Orchestra; Associate Professor

Trumpet

DeVuyst, Russell; B.Mus.Ed.(Boston Cons.), M.M.(New England Cons.); Assistant Professor; Associate Principal Trumpet, Montreal Symphony Orchestra; Assistant Professor

Dunn, Andrew; PCRAM, LRAM, PG Dip GSMD, M.A.(TVU); Assistant Professor; Brass Area Chair

Merkelo, Paul; B.Mus.(Eastman); Principal Trumpet, Montreal Symphony Orchestra; Instructor

Trombone

Beaudry, Pierre; Montreal Symphony Orchestra; Instructor

Box, James; M.M.(S. Methodist), M.M.(Cleveland Inst. Music); Principal Trombone, Montreal Symphony Orchestra; Assistant Professor

Dix, Trevor; M.Mus.(McG.); Instructor

Tuba/Euphonium

Cazes, Alain; Premier Prix(Conservatoire de Montréal); Associate Professor

Johnson, Sasha; Instructor

Miller, Dennis; Principal Tuba, Montreal Symphony Orchestra; Associate Professor

11.3.2.2 Early Music Area**Early Music**

Beghin, Tom; Diplôme Supérieur(Louvain), M.A., D.M.A.(C'nell); Associate Professor; Fortepiano

Bergeron, Sylvain; B.Mus.(Laval); Instructor; Lute

Ericsson, Hans-Ola; Mus. Dir. Exam.(Royal Swedish Academy of Music), Graduate, Hochschule für Musik(Freiburg); Associate Professor; Organ Area Chair

Guimond, Claire; B.Mus.(McG.); Instructor; Baroque Flute

Jennejohn, Matthew; B.A.(Sask.), B.Mus.(Br. Col.); Instructor; Baroque Oboe

Kinslow, Valerie; B.A.(McG.); Assistant Professor; Early Music, Voice

Kirk, Douglas; B.S., B.A.Mus.Hons.(Iowa), M.M.(Texas-Austin), Ph.D.(McG.); Instructor; Cornetto

Knox, Hank; B.Mus., M.Mus.(McG.); Associate Professor; Continuo, Harpsichord (*William Dawson Scholar*)

Lortie, Dominique; Instructor; Sackbut

Early Music

Lussier, Mathieu; Instructor; Baroque Bassoon

MacMillan, Betsy; B.Mus.(W. Ont.), M.Mus.(McG.); Instructor; Viola da Gamba

Maute, Matthias; Instructor; Recorder

Michaud, Nathalie; B.A.(Ott.), Cert. of Interpretation(The Hague), M.A.(Montr.); Instructor; Recorder

Napper, Suzie; Instructor; Baroque Cello

Plouffe, Hélène; Instructor; Baroque Viola, Baroque Violin

Rémillard, Chantal; B.Mus.(Montr.); Instructor; Baroque Violin

Simons, Mark; B.Mus.(McG.); Instructor; Early Clarinet

Weman Ericsson, Lena; M.A.(Uppsala), Ph.D.(Lulea); Assistant Professor; Early Music and Harpsichord Area Chair

11.3.2.3 Ensembles

Ensembles

Guest Conductors; Contemporary Music Ensemble

Cazes, Alain; Premier Prix(Conservatoire de Montréal); Associate Professor; Wind Symphony, Wind Orchestra

Di Lauro, Ron; B.Mus.(McG.); Instructor; Jazz Orchestra 2

Hauser, Alexis; Diplom(Konservatorium der Stadt, Wien); Associate Professor; McGill Symphony Orchestra and Sinfonietta

Kennedy, Donny; B.Mus., M.Mus.(McG.); Instructor; Jazz Combo Coordinator

Kinslow, Valerie; B.A.(McG.); Assistant Professor; Cappella Antica; Early Music Ensemble Co-Coordinator

MacMillan, Betsy; B.Mus.(W. Ont.), M.Mus.(McG.); Instructor; Early Music Ensemble Co-Coordinator

McNabney, Douglas; B.Mus.(Tor.), M.M.(W. Ont.), D.Mus.(Montr.); Associate Professor; Chamber Music Coordinator

Quimet, Francois; University Chorus; Instructor

Sullivan, Joe; B.A.(Ott.), M.M.(New England Cons.); Associate Professor; Chamber Jazz Ensemble

11.3.2.4 Jazz Area

Jazz Bass

Hollins, Fraser; Instructor

Lessard, Daniel; Instructor

Walkington, Alexander; B.Mus., M.Mus.(McG.); Instructor

Jazz Drums

Doxas, Jim; B.Mus.(McG.); Instructor

Laing, David; B.A.(McG.); Instructor

Lambert, Michel; Instructor

McCann, Chris; Instructor

White, André; B.A.(C'dia), M.Mus.(McG.); Associate Professor

Jazz Flute

Gossage, Dave; Instructor

Jazz Guitar

Amirault, Greg; B.Mus.(McG.); Instructor

Bibace, Kenneth; B.Mus., M.Mus.(McG.); Instructor

Clayton, Greg; Instructor

Jazz Guitar

Gauthier, Michael; Instructor

Gearey, Jon; Instructor

Jazz Piano

Amirault, Steve; Instructor

Jarczyk, Jan; B.A., M.A.(Academy of Music, Cracow), Dip.(Berklee); Associate Professor

Johnston, Jeffrey; Instructor

Rager, Josh; B.Mus., M.Mus.(McG.); Instructor

Roney, John; M.Mus.(McG.); Instructor

White, André; B.A.(C'dia), M.Mus.(McG.); Associate Professor

Jazz Saxophone

Bolduc, Rémi; Assistant Professor

Doxas, Chet; B.Mus., M.Mus.(McG.); Instructor

Jensen, Christine; B.Mus., M.Mus.(McG.); Instructor

Kennedy, Donny; B.Mus., M.Mus.(McG.); Instructor

Leroux, André; B.Mus.(Montr.); Instructor

Lozano, Frank; Instructor

McLean, Allan; Instructor

Miller, Joel; B.Mus.(McG.); Instructor

Turner, Dave; Instructor

Jazz Trombone

Abdul Al-Khabyr, Muhammad; Instructor

Grott, David; Instructor

Trottier, Jean-Nicolas; B.Mus., M.Mus.(McG.); Instructor

Jazz Trumpet

Couture, Jocelyn; Instructor

Dean, Kevin; B.M.E.(Iowa), M.Mus.(Miami); Professor

Di Lauro, Ron; B.Mus., M.Mus.(McG.); Instructor

Mahar, Bill; B.Mus.(McG.); Instructor

Sullivan, Joe; B.A.(Ott.), M.M.(New England Cons.); Associate Professor; Jazz Area Chair

Jazz Vibraphone

Stevenson, François; B.Mus.(McG.); B.Ed.(Ott.); Instructor

Jazz Voice

Lee, Rane; Instructor

11.3.2.5 Opera Area**Opera Area**

Hansen, Patrick; B.Mus.(Simpson), M.Mus.(Missouri); Associate Professor; Opera Director

11.3.2.6 Organ Area

Organ

Ericsson, Hans-Ola; Mus. Dir. Exam(Royal Swedish Academy of Music), Graduate, Hochschule für Musik(Freiburg); Associate Professor; Organ Area Chair

Gilbert, Kenneth; D.Mus. honoris causa(McG.), O.C., F.R.S.C., HonRAM; Adjunct Professor

Porter, William; B.Mus.(Oberlin), M.M., M.M.A., D.M.A.(Yale); Associate Professor

11.3.2.7 Percussion Area

Percussion

Huang, Aiyun; B.A.(Tor.), D.M.A.(Calif.-San Diego); Associate Professor; Percussion Area Chair

Marandola, Fabrice; Premier Prix(Conservatoire de Paris); M.Mus., Ph.D.(Sorbonne); Assistant Professor

11.3.2.8 Piano Area

Piano

Davidson, Thomas; B.Mus.(Qu.), M.Mus.(McG.), Cert. of Advanced Study(R.C.M., Lond.), A.R.C.M., L.T.C.L; Assistant Professor

Gavrilova, Julia; M.Mus., D.Mus.(McG.); Instructor

Hashimoto, Kyoko; B.A.(Tokyo), Professional Studies(Juilliard); Associate Professor; Piano Area Chair

Laimon, Sara; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook); Associate Professor

McMahon, Michael; B.Mus.(McG.), Graduate, Hochschule für Musik(Vienna); Associate Professor

Mdivani, Marina; Post-graduate Dip.(Moscow Cons.); Associate Professor

Poletaev, Ilya; B.Mus.(Tor.), M.Mus., M.A., D.M.A.(Yale); Assistant Professor

Zuk, Luba; L.Mus.(McG.), Graduate, Conservatoire de musique du Québec; Ph.D.(Ukrainian Free University, Munich); Associate Professor

11.3.2.9 String Area

Violin

Fewer, Mark; B.Mus.(Tor.); Associate Professor; String Area Chair

Lupien, Denise; B.M., M.M.(Juilliard); Concertmaster, Orchestre Métropolitain; Assistant Professor

Roberts, Richard; B.Mus.(Ind.); Concertmaster, Montreal Symphony Orchestra; Assistant Professor

Strauss, Axel; Dipl.(Musikhochschule Rostock), Prof. Studies Cert.(Juilliard); Associate Professor

Wan, Andrew; Instructor

Viola

Chen, Jun-Yuan (Lambert); B.Mus.(Johns Hop.), M.Mus.(New England Cons.), D.Mus.(McG.); Instructor

Marcotte, Anna-Belle; L.Mus.(McG.); Instructor

McNabney, Douglas; B.Mus.(Tor.), M.M.(W. Ont.), D.Mus.(Montr.); Associate Professor; String Area Chair

Roy, André; B.Mus.(Curtis); Associate Professor

Cello

Dolin, Elizabeth; B.Mus.(Tor.), Artist Dip.(Ind.); Assistant Professor

Dyachkov, Yegor; Instructor

Haimovitz, Matt; B.A.(Harv.); Associate Professor

Manker, Brian; Principal Cello, Montreal Symphony Orchestra; Instructor

Double Bass

Chappell, Eric; B.Mus.(McG.); Montreal Symphony Orchestra; Instructor
 Feltham, Scott; B.Mus.(McG.); Montreal Symphony Orchestra; Instructor
 Robinson, Brian; B.Mus.(Tor.); Montreal Symphony Orchestra; Assistant Professor
 Yazdanfar, Ali; Montreal Symphony Orchestra; Instructor

Guitar

Antonio, Garry; B.Mus., M.Mus.(McG.), D.Mus.(Montr.), D.I.A.(C'dia); Instructor
 Dobby, Timothy; B.Mus.(USC), M.Mus.(McG.); Instructor
 Ducharme, Jérôme; Prix Grande Distinction(Conservatoire de Montréal); Instructor

Harp

Swartz, Jennifer; Dip.(Curtis); Principal Harp, Montreal Symphony Orchestra; Assistant Professor

11.3.2.10 Voice Area**Voice**

Algieri, Stefano; B.Mus., M.Mus.(Manhattan School of Music); Associate Professor
 Kinslow, Valerie; B.A.(McG.); Assistant Professor; Early Music, Voice Area Chair
 Kolomyjec, Joanne; B.Mus.(Tor.); Assistant Professor
 Popescu, Annamaria; A.Dip. (Acad. of Vocal Arts); Instructor
 Purdy, Winston; B.Mus.(McG.), M.M.(Eastman); Associate Professor
 Sevadjian, Thérèse; B.Mus., M.Mus.(Montr.); Associate Professor
 Sylvan, Sanford; B.Mus.(Manhattan); Assistant Professor

11.3.2.11 Vocal Repetiteurs**Vocal Repetiteurs**

Diamond, Louise; M.Mus.(McG.); Vocal Repetiteur
 Godin, Olivier; Vocal Repetiteur
 McLean, Pierre; Vocal Repetiteur
 Nigrim, Dana; Vocal Repetiteur
 Pelletier, Louise; B.Ed., M.Mus.(UQAM), M.Mus.(Montr.); Vocal Repetiteur
 Scarfone, Marie-Eve; Vocal Repetiteur

11.3.2.12 Woodwind Area**Flute**

Bluteau, Denis; M.Mus.(Montr.); Associate Principal, Montreal Symphony Orchestra; Instructor
 Bourget, Danièle; Premier Prix(Conservatoire du Québec); Instructor
 Christie, Carolyn; B.Mus.(McG.); Montreal Symphony Orchestra; Associate Professor
 Howes, Heather; B.Mus., M.Mus.(McG.); Instructor
 Hutchins, Timothy; Dip. L.G.S.M.(Guildhall), B.A.Hons.Mus.(Dal.); Principal Flute, Montreal Symphony Orchestra; Associate Professor
 Kestenber, Abe; Associate Professor
 Shuter, Cindy; B.Mus.(Tor.); Instructor

Oboe

Baskin, Theodore; B.Mus.(Curtis), M.Mus.(Auck.); Principal Oboe, Montreal Symphony Orchestra; Associate Professor

Forget, Normand; Instructor

Leclair, Jacqueline; B.Mus.(Eastman), M.Mus., D.M.A.(SUNY, Stony Brook); Assistant Professor; Woodwind Area Chair

Clarinet

Aldrich, Simon; B.Mus., L.Mus.(McG.); Instructor

Crowley, Robert; B.M.(Eastman), M.M.(Cleve. Inst. of Music); Assistant Professor

Desgagné, Alain; Premier Prix(Conservatoire du Québec), M.Mus.(N'western); Instructor

Dumouchel, Michael; B.Mus.(Eastman); Montreal Symphony Orchestra; Instructor

Kestenberg, Abe; Associate Professor

Bassoon

Lévesque, Stéphane; Premier Prix(Conservatoire de Montréal); M.Mus.(Yale); Principal Bassoon, Montreal Symphony Orchestra; Assistant Professor

Mangrum, Martin; Montreal Symphony Orchestra; Instructor

Saxophone

Freeman, Peter; L.Mus., B.Mus., M.Mus.(McG.); Instructor

Kestenberg, Abe; Associate Professor

11.4 About the Schulich School of Music (Undergraduate)

McGill's Schulich School of Music is the largest university-based school for professional musical training and music research in Canada. The school is renowned for its orchestral, choral, opera, jazz, chamber, contemporary, and early music programs, and for its award-winning creative and research work in composition, music theory, musicology, music education, sound recording, and music technology. Pollack Hall (capacity: 600), Redpath Hall (capacity: 300 and housing the University organ) and Tanna Schulich Hall (capacity: 187) are among the busiest and best concert venues in Montreal. The intimate Clara Lichtenstein Hall (capacity: 80) is scheduled for renovation in the summer of 2013. In addition, facilities include the Wirth Opera Studio (an opera rehearsal room) and the Multimedia Complex Suite, including the Multimedia Room (a scoring stage/acoustical research lab), three isolation booths, a small recording studio, and three control rooms of different sizes. The three floors of the Marvin Duchow Music Library contain well over 100,000 scores, recordings, books, and periodicals; in addition, the Gertrude Whitley Performance Library has performing parts for over 6,000 titles.

Both old and new buildings house labs for numerous specialized functions: digital composition and electronic music, music education research, multi-channel sound recording, music perception and cognition, sound processing and control, computational modelling, and more. There are state-of-the art classrooms, teaching studios, and over 100 practice rooms. The Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT) is an interfaculty, inter-university, international consortium of scholars that brings together researchers in music, sound recording, music technology, psychology, neuroscience, engineering, and medicine (www.cirmmt.mcgill.ca).

Current student enrolment is approximately 550 at the undergraduate level and approximately 250 at the graduate level. Teaching staff includes 60 full-time and over 140 part-time members. Students, faculty, and staff play major roles in Montreal's vibrant cultural scene, presenting approximately 700 concerts and events annually, as well as master classes, lectures, and symposia, all enhanced by active music student societies, a booking office, and devoted administrative and support staff.

11.4.1 Location

Strathcona Music Building
555 Sherbrooke Street West
Montreal, Quebec H3A 1E3
Canada

Telephone: 514-398-4535
Fax: 514-398-1540
Website: www.mcgill.ca/music

11.4.2 Faculty Administrative Officers

11.4.2.1 Dean's Office

Dean's Office

Sean Ferguson; B.Mus.(Alta.), M.Mus., D.Mus.(McG.)	Dean
Mary-Beth Campbell; B.Mus., M.Mus.(McG.)	Faculty Administrator
Valerie McConnell	Personnel and Administrative Coordinator
Catherine Healy	Administrative Coordinator
Linda Mannix; B.A.(C'dia)	Secretary
Kelly Rice; B.Mus., M.A.(McG.)	Development Director
Natacha Gauthier; M.Mus.(Montr.)	Development and Alumni Relations Associate
Irene Baczynsky	Administrative Coordinator
Henry Tin; B.Eng., M.Eng., M.Sc.(McG.)	Budget Officer
Rena Raghunanan	Faculty Research Account Administrator
Elise Quinn; B.A.(McG.)	Senior Accounting Clerk

11.4.2.2 Associate Deans' Office

Associate Deans' Office

Sara Laimon; B.Mus.(Br.Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook)	Associate Dean (Academic and Student Affairs)
Julie Cumming; B.A.(Col.), M.A., Ph.D.(Calif., Berk.)	Associate Dean (Research and Administration)
Diana Toni Dutz; B.Mus.(W. Ont.), Grad.Dip.(C'dia)	Administrative Coordinator to the Associate Deans
Devyn Nicholson; B.Mus.(Ott.), M.Mus.(McG.)	Technical Manager, Concerts/Recordings
Alain Terriault	LAN Manager

11.4.2.3 Graduate Studies

Graduate Studies

Eleanor Stuble; B.Mus.(Tor.), M.Mus.(Bran.), Ph.D.(Ill.)	Director, Graduate Studies
Hélène Drouin	Senior Administrative and Student Affairs Coordinator
TBA	Student Affairs Coordinator

11.4.2.4 Academic Affairs

Academic Affairs

Christoph Neidhöfer; Dipl.(Musikhochschule Basel), Ph.D.(Harv.)	Chair, Department of Music Research
Jean Lesage; Diplôme d'études supérieures(Conservatoire de Montréal)	Chair, Department of Performance
Tracy Roach; B.Mus.(McG.)	Administrative Assistant
Ania Loboda; B.Com.(C'dia)	Student Affairs Coordinator, Performance and Music Research
Jennifer Stephenson; B.A.(McG.)	Timetable and Scheduling Coordinator
Alexis Carter; B.Mus., M.Mus.(McG.)	ERM/Gig Office Administrator
Kerry Wagner; C.T.T.	Piano Maintenance Supervisor, Department of Performance
Christopher Smythe; B.Mus., M.Mus.(McG.)	Shop Coordinator

11.4.2.5 Admissions

Admissions

Patrick O'Neill; B.A.(McG.)	Admissions Officer
Mary Di Stefano	Admissions and Registration Clerk, Graduate
Pia D'Amico	Admissions and Registration Clerk, Undergraduate
Danuta Pietrzak	Admissions Secretary
Melanie Collins; B.A.(C'dia)	Recruitment and Admissions Administrator
Janet Edwards; B.A.(C'dia)	Marketing and Web Content Administrator

11.4.2.6 Student Affairs

Student Affairs

Marie Moscato	Senior Academic Adviser
Egidia De Michele	Senior Administrative and Student Affairs Coordinator
Danuta Pietrzak	Student Affairs Secretary

11.4.2.7 Building Management

Building Management

Peter Wightman; L.Mus., B.Mus., M.Mus.(McG.)	Building Director
Katherine Simons; B.Mus.(W. Laur.)	Associate Building Director
Nick Zervos	Electronics Technologist (A/V)

11.4.2.8 Concerts and Publicity

Box Office (weekdays: 12:00 to 18:00): 514-398-4547
 Concert Information: 514-398-4547 or 514-398-5145
 Bookings: 514-398-8993

Concerts and Publicity

Louise Ostiguy; B.Mus.(Montr.), C.G.E.(HEC)	Director
Kate Herzberg; B.Mus., Dip.Ed.(McG.), Dip.TEFL(Rutg.)	Marketing and Publicity Supervisor
Marie Pothier; B.Mus.(Montr.)	Publicity Secretary
Johanne Froncioni	Production Supervisor
Maureen Leaman	Secretary
Serge Filiatrault	Manager, Operations and Stage
Robert A. Doucet; B.A.(C'dia)	Stage Manager (Redpath Hall)
Michel Maher	Stage Manager (Tanna Schulich Hall)
Danielle Caddell-Malentant; DEC III-Professional Theatre (Tech)(John Abbott)	Assistant Stage Manager (Pollack Hall)
James Clemens-Seely; B.Mus.(McG.)	Assistant Stage Manager (Tanna Schulich Hall)
Christopher Johns; B.Mus.(Manit.), M.Mus.(McG.)	Assistant Stage Manager (Pollack Hall)
François Robitaille	Piano Maintenance Supervisor

11.4.2.9 Marvin Duchow Music Library

Telephone: 514-398-4695

Marvin Duchow Music Library

Cynthia Leive; B.Mus.(Eastman), M.L.S.(SUNY, Geneseo), M.F.A.(Car.)	Head Librarian
Carolyn Doi; M.L.I.S.(McG.)	Music Liaison Librarian
Cathy Martin; B.Mus.(UQAM), M.L.I.S.(McG.)	Music Liaison Librarian
Brian McMillan; B.Mus., M.Mus.(McG.), M.I.St.(Tor.)	Music Liaison Librarian
Andrew Senior; B.A., M.Phil.(York, UK)	Specialized (Audio/Visual) Cataloguing Editor
Gabrielle Kern; B.Mus.(McG.)	Senior Library Clerk
Melanie Preuss	Senior Library Clerk (Circulation)
Patrick Dupuis; B.Mus.(Montr.)	Senior Library Clerk (Scores)
Gail Youster	Senior Library Clerk (Serials)
David Curtis; B.Sc.(McG.)	Senior Reference Assistant & Cat. Editor

11.4.2.10 Gertrude Whitley Performance Library

Telephone: 514-398-4553

Gertrude Whitley Performance Library

Erika Kirsch; B.Mus.(Southern Methodist Univ.), M.Mus.(Eastman)	Senior Specialized Cataloguing Editor and Acquisitions Assistant

11.4.2.11 Opera McGill

Telephone: 514-398-4535, ext. 0489

Opera McGill

TBA	Principal Conductor
Patrick Hansen; B.Mus.(Simpson), M.Mus.(Missouri)	Executive Director

11.4.2.12 Digital Composition Studio

Telephone: 514-398-4552

Digital Composition Studio

Sean Ferguson; B.Mus.(Alta.), M.Mus., D.Mus.(McG.)	Co-Director
Philippe Leroux; Premier Prix (Conservatoire national supérieur de musique et de danse de Paris)	Co-Director
Richard McKenzie	Chief Electronics Technician

11.4.2.13 Recording Studio

Telephone: 514-398-4549

Recording Studio

Wieslaw Woszczyk; M.A., Ph.D.(F. Chopin Academy of Music, Warsaw)	Director
Ieronim Catanescu	Electronics Technician

11.4.2.14 Music Technology Research Laboratories

Fax: 514-398-2962

Music Technology Research Laboratories

Darryl Cameron

Chief Electronics Technician

11.4.2.15 Computational Acoustic Modeling Laboratory (CAML)

Telephone: 514-398-4535, ext. 094836

Computational Acoustic Modeling Laboratory

Gary P. Scavone; B.A., B.S.(Syrac.), M.S., Ph.D.(Stan.)

Director

11.4.2.16 Distributed Digital Music Archives and Libraries Laboratory (DDMAL)

Telephone: 514-398-4535, ext. 0300

Distributed Digital Music Archives and Libraries Laboratory

Ichiro Fujinaga; B.Mus., B.Sc.(Alta.), M.A., Ph.D.(McG.)

Director

11.4.2.17 Sound Processing and Control Laboratory (SPCL)

Telephone: 514-398-4535, ext. 00271

Sound Processing and Control Laboratory

Philippe Depalle; B.Sc.(Paris XI & ENS Cachan), D.E.A.(Le Mans & ENS Cachan), Ph.D.(Le Mans & IRCAM)

Co-Director

Marcelo M. Wanderley; B.Eng.(UFPR), M.Eng.(UFSC), Ph.D.(Paris VI & IRCAM)

Co-Director

11.4.2.18 Input Devices and Music Interaction Laboratory (IDMIL)

Telephone: 514-398-4535, ext. 094916

Input Devices and Music Interaction Laboratory

Marcelo M. Wanderley; B.Eng.(UFPR), M.Eng.(UFSC), Ph.D.(Paris VI & IRCAM)

Director

11.4.2.19 Music Perception and Cognition Laboratory (MPCL)

Telephone: 514-398-4535, ext. 094812

Music Perception and Cognition Laboratory

Stephen McAdams; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris)

Director

Bennett Smith

Technical Manager

11.4.2.20 Real-Time Multimodal Laboratory (RTML)

Telephone: 514-398-4535, ext. 094837

Real-Time Multimodal Laboratory

Stephen McAdams; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris)

Director

Bennett Smith

Technical Manager**11.4.2.21 Centre for Interdisciplinary Research in Music Media & Technology (CIRMMT)**

Telephone: 514-398-8793

Fax: 514-398-7414

Centre for Interdisciplinary Research in Music Media & Technology

Marcelo M. Wanderley; B.Eng.(UFPR), M.Eng.(UFSC), Ph.D.(Paris VI & IRCAM)

Director

Harold Kilianski; B.Mus.(McG.)

Technical Manager

Sara Gomez; B.A.(McG.)

Administrator

Jacqueline Bednar; B.Mus.(Sur., Guildford, UK)

Administrative Coordinator

TBA

Secretary

Yves Méthot; B.Eng.(E.T.S.)

Electronics Coordinator

Julien Boissinot

Systems Manager

Fabrice Maraldola; Ph.D.(Sorbonne)

Associate Director, Artistic Research

Gary P. Scavone; B.A., B.S.(Syrac.), M.S., Ph.D.(Stan.)

Associate Director, Scientific and Technological Research**11.4.2.22 Music Education Research Laboratory**

Telephone: 514-398-4554

Music Education Research Laboratory

Joel Wapnick; B.A.(NYU), M.A.(SUNY), M.F.A.(Sarah L.), Ed.D.(Syrac.)

Director**11.4.2.23 McGill University Records**

Telephone: 514-398-4537

McGill University Records

Joel Wapnick; B.A.(NYU), M.A.(SUNY), M.F.A.(Sarah L.), Ed.D.(Syrac.)

Director**11.4.2.24 McGill Conservatory, Community Program of the Schulich School of Music of McGill University**

Telephone: 514-398-4543 (Downtown campus)

Telephone: 514-398-7673 (Macdonald campus)

www.mcgill.ca/conservatory**McGill Conservatory, Community Program of the Schulich School of Music of McGill University**

Clément Joubert; B.Mus.(McG.)

Director

Nancy Soulsby; B.A., Dip.Ed.(McG.)

Administrative Assistant

Marie-Reine Pelletier

Student Affairs Coordinator

Sharon Webb

Admissions and Registration Clerk (*on leave*)

Nancy McMahon-Laporte

Secretary

Jennifer Pelletier

Supervisor, Summer Conservatory Camp

TBA

Senior Administrative Coordinator, Summer Camp

11.5 Overview of Programs

The Schulich School of Music offers degree programs leading to the B.Mus. and diploma programs leading to an L.Mus. and Artist Diploma. The Department of Music Research offers Minors in Composition, Music Education, Music History, Music Theory, and two Minors in the area of Music Technology.

The Schulich School of Music of McGill University also offers the opportunity to pursue courses that reflect your multiple interests through collaboration with McGill's other faculties and departments. You may wish to consider partnering your music studies with subjects within other faculties that would lead to graduating with a double major or minor.

11.5.1 Degrees and Diplomas Offered

11.5.1.1 Degree of Bachelor of Music (B.Mus.)

The degree of Bachelor of Music may be obtained in any one of the following fields:

Majors

Composition

Faculty Program

Music Education – available only as a component of the Concurrent B.Mus./B.Ed. program

Music History

Music Theory

Performance

Early Music Performance

Jazz Performance

11.5.1.2 Faculty Program

This program is designed to accommodate those students who are either undecided about the area of music in which they wish to specialize, or who are interested in a pattern of specialization not provided in the established major programs, or who are interested in combining studies in music with studies in other disciplines.

All of the above B.Mus. programs normally require three years of study following completion of the Quebec Diploma of Collegial Studies or four years of study following completion of secondary school elsewhere.

11.5.1.3 B.A. Major Concentration in Music

The Faculty of Arts offers a Bachelor of Arts degree with a Major concentration in Music. Further details on the program can be found under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.37: Music \(MUAR\)](#)*.

11.5.1.4 Minor Programs

A Minor in Music Education is available to all students (with the exception of students in the concurrent B.Mus./B.Ed. program). This option will take the place of Music and/or Free Electives.

A Minor in Music History is available to all students (with the exception of students in the Major in Music History program). This option will take the place of Music and/or Free Electives, as well as history, literature, and performance practice complementary courses.

A Minor in Composition is available to all students (with the exception of students in the Major in Composition program). This option will take the place of Music and/or Free Electives.

Minors in Musical Applications of Technology and Musical Science and Technology are available to Music students who wish to graduate with a knowledge of newer technologies and the impact they are having on the field of music. (Space permitting, these minors are also available to students from other faculties.)

A Minor in Theory is available to all students (with the exception of students in the Major in Music Theory program). This option will take the place of Music and/or Free Electives.

A Minor in Marketing and a Minor in Management are available to B.Mus. students. Further information on these minors can be found under *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > [section 10.8.7: Minors for Non-Management Students](#)*.

Minor programs in Music are also available to students in the Faculty of Arts and the Faculty of Science. Further information on these minors can be found under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.37: Music \(MUAR\)](#)* and under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Science > Undergraduate > Academic Programs > [section 13.13.23: Music](#)*.

11.5.1.5 M.Mus. Performance (Prerequisite courses)

Students wishing to prepare for the Master of Music in Performance should include, in their Bachelor of Music program, the courses listed under [section 11.8.2.15: Special Prerequisite Courses for M.Mus. in Performance](#).

11.5.1.6 M.Mus. Sound Recording (Prerequisite courses)

Students wishing to prepare for the Master of Music in Sound Recording should include, in their Bachelor of Music program, the courses listed under [section 11.8.1.5: Special Prerequisite Courses for M.Mus. in Sound Recording](#).

11.5.1.7 Licentiate in Music (L.Mus.)

The Licentiate in Music is offered in Performance and is designed for advanced instrumentalists, singers, and jazz performers who wish to concentrate on their practical subject while limiting their theoretical studies to basic areas in Music History, Theory, and Musicianship. This program normally requires three years of study. For more information, please see: [section 11.8.2.9: Licentiate in Music \(L.Mus.\) - Major Performance Piano \(93 credits\)](#); [section 11.8.2.10: Licentiate in Music \(L.Mus.\) - Major Performance \(All Instruments except Piano, Voice and Jazz\) \(93 credits\)](#); [section 11.8.2.11: Licentiate in Music \(L.Mus.\) - Major Performance Voice \(105 credits\)](#); and [section 11.8.2.12: Licentiate in Music \(L.Mus.\) - Major Performance Jazz \(100 credits\)](#).

11.5.1.8 Artist Diploma

The Artist Diploma is available only to advanced instrumentalists and singers who demonstrate technical and musical maturity. Admission into the program requires completion of a Bachelor of Music degree in Performance, a Licentiate in Music, or the equivalent.

11.5.1.9 Graduate Diploma in Professional Performance

The Graduate Diploma in Professional Performance is open to accomplished musicians, singers, or established chamber ensembles.

11.5.1.10 Degree of Master of Arts (M.A.)

The Master of Arts degree (M.A.) is available as a thesis option in Music Education, Music Technology, Musicology, and Theory and as a non-thesis option in Music Education, Musicology, and Theory.

11.5.1.11 Degree of Master of Music (M.Mus.)

The Master of Music degree (M.Mus.) is available in Composition, Performance, and Sound Recording. Within the Performance option are offered specializations in: piano, guitar, orchestral instruments, organ, conducting, chamber music, orchestral training, piano accompaniment, vocal, opera, opera coaching, vocal pedagogy, early music, church music – organ, and jazz.

11.5.1.12 Degree of Doctor of Music (D.Mus.)

The Doctor of Music degree (D.Mus.) is available in Composition and Performance Studies.

11.5.1.13 Degree of Doctor of Philosophy (Ph.D.)

The Doctor of Philosophy degree (Ph.D.) is available in Music Education, Musicology, Music Technology, Sound Recording, and Theory.

For details of the master's and doctoral programs, please consult the *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies, available at www.mcgill.ca/study.

11.5.2 Orchestral Training

Orchestral Training at McGill includes all students in the B.Mus., L.Mus., Artist Diploma, M.Mus., and D.Mus. degrees and diplomas whose major is one of the orchestral instruments. Many of its graduates are now members of professional orchestras throughout North America, Europe, and the rest of the world. Led by full-time conductors in residence and supported by a number of full-time staff as well as many members of the top professional orchestras in and around Montreal, Orchestral Training at McGill provides for regular private practical lessons as well as performance in one or more large instrumental ensembles including a full symphonic orchestra (approximately 100 players), a contemporary music ensemble, a percussion ensemble, and a variety of small chamber music groups. It also includes regular coached orchestral sectionals and orchestral repertoire classes.

11.5.3 Scholarships and Financial Aid

General information on scholarships, including McGill Entrance Scholarships, and a detailed listing of all awards are available at www.mcgill.ca/studentaid/scholarships.

Schulich Scholarships valued at CAD\$5,000/year (renewable) are available to outstanding prospective students. About 70 Schulich Scholars are present in the School during any academic year. A limited number of Music Entrance Scholarships (valued at \$2,000 each) are also awarded to incoming Performance students on the basis of auditions held only in February. All instruments, including voice, are eligible. In addition, outstanding string players applying to the Schulich School of Music are encouraged to audition for the Lloyd Carr-Harris String Scholarships (valued at \$10,000 each, renewable). Application for admission must be submitted by January 15.

While taking into account the stipulations of the individual awards, Schulich School of Music scholarships, awards, and prizes are given on the basis of a student's record for the academic session ending in April and are tenable during the next academic year beginning in September. Students must have successfully completed at least 27 credits (excluding courses completed under the Satisfactory/Unsatisfactory option) in the academic year preceding the award and must register for full-time studies during the subsequent year, unless fewer credits are needed to complete the program. Students whose records contain outstanding incompletes or deferrals will not be considered. No application is required.

11.5.4 Summer Studies

Summer Studies offers courses starting in May, June, and July.

Students may take a maximum of 18 credits during the Summer session. Those wishing to take more than 5 credits in any one month must obtain the permission of the Senior Student Adviser.

Information concerning course offerings and application forms may be obtained from the McGill Summer Studies Office website, www.mcgill.ca/summer, or by calling 514-398-5212.

11.5.5 Music Credit Options for Students in Other Faculties

The Schulich School of Music offers three groups of courses that may be taken for credit by students in other faculties.

The first group consists of Music Literature and Theory courses especially designed for students from other faculties who may not have taken formal studies in music but who wish to take elective courses in the cultural, historical, and theoretical aspects of music.

The second group is the sequence of courses in music theory and history that are part of the Schulich School of Music undergraduate curriculum. These courses may be taken by those having the necessary prerequisite studies in music.

The third group of courses consists of selected music ensembles open, by audition, to students in other faculties.

For further details on these courses, please see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.37: Music (MUAR)*. Other music courses may be taken by qualified students from other faculties providing they obtain permission from the relevant department in the Schulich School of Music and from the Associate Dean of their own faculty.

11.5.6 McGill Conservatory

The McGill Conservatory, Community Program of the Schulich School of Music, offers instruction in piano, guitar, harp, most orchestral instruments, and voice, as well as Theory and Ear Training from the elementary level up to and including Collegial levels.

In addition, the McGill Conservatory offers the Little Musicians course—an introduction to music for young children; Suzuki method instrumental instruction; orchestras; children's, youth, and adult choirs; chamber music ensembles; a variety of jazz courses: improvisation, theory, history, and combos; and a summer day camp.

Instrumental examinations up to the Collegial II level and Theory and Ear Training examinations from the Secondary III to Secondary V levels are available to both internal and external students. Theory and Ear Training examinations at the Elementary and Collegial I and II levels are open to internal students only.

The McGill Conservatory also welcomes adult students (at any level) and encourages their participation not only in instrumental instruction but also in choir, orchestra, instrumental ensembles, and Theory and Ear Training courses.

For more information, contact the McGill Conservatory: 514-398-4543 (Downtown); 514-398-7673 (Macdonald campus); 514-398-5505 (Camp); website: www.mcgill.ca/conservatory.

11.6 Admission

As you plan for the next step in your education, we would be pleased to assist you in providing further information and/or assistance. Please take a few minutes to create an account on [McGill in Mind](#). Here you can register for tours of the Schulich School of Music, learn about events, request publications, modify your personal profile, and receive messages from us concerning exciting developments at the School. Please note that certain materials in our packages are only available in English. (All information is confidential and will be used solely for McGill University recruiting purposes.)

11.6.1 Application Procedure

All inquiries regarding admission should be directed to:

Music Admissions Office
Schulich School of Music, McGill University
555 Sherbrooke Street West
Montreal, Quebec H3A 1E3

Full information, including a web-based application form, is available at www.mcgill.ca/music/future-students.

In order to ensure proper consideration, web applications for September must be submitted by January 15. The School normally does not admit students in January. Please consult the Music Admissions Office for exceptions. Applications received after these deadlines will be considered if places are still available.

Application information should include detailed descriptions of the applicant's musical background, training, and statement of intent including photocopies of diplomas, certificates, and/or transcripts. An official up-to-date transcript must also be sent directly by the school attended. All applicants must arrange to have a Music Evaluation form submitted on their behalf. All supporting documents for undergraduate applications can be submitted online via Minerva—see www.mcgill.ca/applying/submitting-your-documents/uploadingdocuments for guidelines on how to upload documents. All screening and audition recordings should be submitted electronically directly to the Schulich School of Music: undergraduateadmissions.music@mcgill.ca.

Applicants are advised that satisfying the entrance requirements does not guarantee admission where instrumental places are limited.

11.6.2 Music Entrance Requirements

The minimum music entrance requirements are the equivalent of McGill Conservatory Collegial I Instrument or Voice (Performance applicants: Collegial II) and Secondary V Theory and Ear Training.

Approximate Equivalents to Entrance Requirements in Practical Subjects (McGill Conservatory Collegial I – Instrument/Voice)

Quebec CEGEPs	CEGEP II
Toronto Conservatory	Grade 9
Western Board	Grade 9
Mount Allison	Grade 9
Associated Board of the Royal Schools of Music	Grade 7

The above listing is intended only as a general guide. Admissibility to any program is determined by audition and academic record. Students wishing to major in Performance should be approximately two years more advanced, and be able to demonstrate potential as performers at their audition.

All applicants in female voice and in all jazz instruments will be required to submit screening material (audio) for preselection by January 15. Following a review of these recordings, selected applicants will be invited to attend a live audition. No live audition will be scheduled in female voice or in any jazz instrument until recordings have been received and reviewed. All applicants must perform an audition of approximately 15 minutes' duration. The student should choose material that will represent different musical periods and reveal musicianship and technical proficiency to best advantage. Applicants for the Artist Diploma program must prepare an audition of recital material lasting approximately 60 minutes.

Consult the Music Admissions website at www.mcgill.ca/music/future-students/undergraduate for specific information on entrance audition requirements and dates.

Recorded auditions (video) are acceptable when distance prevents an applicant from attending an audition in person.

Applicants for Composition are asked to submit two or three samples of their written work.

Music Education applicants are asked to outline reasons for wishing to enter the Music Education field in their statement of intent and have a letter of reference sent from someone attesting to his or her suitability for teaching.

All screening and audition recordings and composition samples should be submitted electronically directly to the Schulich School of Music of McGill University: undergraduateadmissions.music@mcgill.ca.

11.6.3 Academic Entrance Requirements

11.6.3.1 Bachelor of Music

The applicant's entrance audition and the academic record are considered when making an admission decision. As a limit is placed upon the number of students admitted to study a particular instrument, fulfillment of the minimum entrance requirements does not guarantee acceptance. TOEFL may be required of non-Canadian students whose mother tongue is not English. It is the applicant's responsibility to make the necessary arrangements with the examining board to write the test in the country of residence.

11.6.3.2 CEGEP Applicants

Students are expected to obtain the Quebec Diploma of Collegial Studies (*Diplôme d'études collégiales*) in the Music Concentration or equivalent. Applicants with a DCS/DEC in a field other than Music must have the equivalent Music prerequisites. The minimum overall average required is 75%. CEGEP graduates are considered for admission to a three-year or a four-year program.

11.6.3.3 Canadian High School (excluding Quebec) Applicants

Applicants are expected to obtain a high school graduation diploma that leads to university admission in the student's home province. Ontario high school students are normally expected to have obtained a minimum of six pre-university (4U, 4M) courses; at least four of the six must have been taken at the 4U level. There are no specific non-Music prerequisite courses required, and the minimum overall average should be 75%. Canadian high school graduates are admitted to a four-year program.

11.6.3.4 U.S. High School Applicants

Applicants are expected to obtain a high school graduation diploma that meets the requirements for university/college admission in the U.S. The minimum overall average required is B+. There are no specific non-Music prerequisite courses, or SAT and Achievement Test results required. Some credit will be granted for Advanced Placement Examinations in appropriate subjects. U.S. high school graduates are admitted to a four-year program.

11.6.3.5 International Applicants

In general, applicants must be eligible for admission to university in their country of origin and have above-average grades. Students who have completed an International Baccalaureate, a French Baccalaureate, or a minimum of three GCE "A" (Advanced) Level examinations are considered for admission into a three-year program. Normally, applicants with five GCE "O" (Ordinary) Level results, plus one year of schooling beyond the Ordinary Level, are admitted to a four-year program. Applicants with qualifications from other systems will be considered for either a three-year or a four-year program.

11.6.3.6 Transfer Students

Transfer students are considered on the basis of both their university or college work and previous studies. Normally, students are expected to complete a full year of university studies prior to applying for admission, and to be in good standing as defined by the university previously attended. The minimum overall average required is a CGPA of 3.00. Transfer credits for non-Music courses in which a grade of C or better has been received are granted following an evaluation of the student's transcript. Transfer credits, with certain restrictions, are granted for music complementary or elective courses following an evaluation of the student's transcript (a higher grade may often be required). Transfer students must complete a minimum of 60 credits at McGill in order to obtain a degree.

11.6.3.7 Mature Students

Applicants who are at least 21 years of age and are Canadian citizens or Permanent Residents at or before registration, who have not met the high school or CEGEP academic requirements, and who are able to demonstrate exceptional talent in their discipline may be considered for admission. Such applicants may be resident anywhere in Canada. All available academic/educational documents must be submitted. An interview may be required.

11.6.3.8 Special Students

Special Students do not need to fulfil any of the academic requirements outlined previously, but are required to have the necessary music prerequisites for the courses concerned. Registration is subject to the availability of space in the course(s) concerned. Special Students are normally not entitled to lessons in an instrument or in voice. Registration is permitted for one year only, after which time the student must apply for admission to either a degree or diploma program.

11.6.3.9 Visiting Students

Individuals wishing to take courses at McGill for credit at another university may be admitted as Visiting Students provided they have the prerequisites for the course(s) concerned and have official permission from their home university.

11.6.4 Diploma Programs

11.6.4.1 L.Mus. (All Applicants)

For admission to the Licentiate program, the applicant must have completed secondary school. The applicant's music qualifications must be equivalent to McGill Conservatory Collegial II Instrument or Voice and Secondary V Theory/Ear Training. An entrance audition is required. This program is normally three years in length.

11.6.4.2 Artist Diploma (All Applicants)

For admission to the Artist Diploma program, the applicant must have a Bachelor of Music degree in Performance, the Licentiate in Music of the McGill Schulich School of Music, or the equivalent, and must pass a performance audition. This program is normally two years in length.

11.6.5 Music Placement Examinations

All new students must sit diagnostic placement examinations in Theory, Musicianship (Ear Training), Music History, Keyboard Proficiency, and, for Jazz majors, Jazz Materials, in order to determine their course levels. General placement/Advanced Standing examinations will be given during the entire weekend prior to the beginning of classes in September. Jazz Materials and Jazz Keyboard Proficiency placement exams are given on the first day of class.

First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (*Diplôme d'études collégiales*) in a Music concentration or equivalent, or students transferring from other universities or colleges, and who have completed a course in the history of Western music will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

First-year students enrolled in the Bachelor of Music program with a Major in Jazz Performance who have completed the Quebec Diploma of Collegial Studies (*Diplôme d'études collégiales*) in a Jazz concentration or equivalent, or students transferring from other universities or colleges, and who have completed a course in the history of Jazz will be exempted from the first-year Jazz History Survey requirement (MUJZ 187).

Students accepted into either the Licentiate Diploma (L.Mus.) or the Artist Diploma, who have completed the degree of **Bachelor of Music** at a Canadian or American university (or the equivalent elsewhere) within the preceding three (3) years will not be required to sit the Music Placement Examinations and

will be exempted from required Theory, Musicianship, and Music History, Literature, or Performance Practice courses. Should such students wish to avail themselves of the diagnostic service that the Music Placement Examinations provide, they may sit them—without, however, being bound by the recommendation generated from their results. Nevertheless, should great difficulties arise in a specific class because of lack of adequate preparation, the Chair of the Department of Music Research, upon the advice of the instructor, reserves the right to counsel the student to undertake studies at a lower level.

11.6.6 Keyboard Proficiency Test (MUSP 170)

Students entering any of the B.Mus. or L.Mus. programs should be prepared to demonstrate, in a Keyboard Proficiency Test, keyboard skills sufficient to enable them to use the piano as a tool in their studies at McGill.

Those who are unable to do so must register continuously for Keyboard Proficiency MUSP 170 until they successfully complete the course. Majors in Jazz Performance must enrol in MUJZ 170. Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from the MUSP 170 Test (but not from MUSP 171).

The requirements of the Keyboard Proficiency Test are as follows:

1. Sight-reading (simple two-part piece using treble, bass, and alto clefs).
2. Technique (scales, triads, and arpeggios). Two octaves, hands together.
3. Prepared piece (contrapuntal texture in two or three parts, or simple homophonic textures, level equivalent to McGill Conservatory Secondary III).
4. Keyboard rudiments (recognition/playing of intervals, chords, scalar patterns, etc.).

Students will not be allowed to proceed with higher-level Musicianship or Theory studies until these requirements are met. Exact test dates are determined by the Department of Music Research.

11.6.7 Readmission

Students in Satisfactory Standing, who have not been registered in the Schulich School of Music for one or two terms, may return to the program in which they were previously registered upon permission of the Faculty. Those who have been out for longer than two terms may be readmitted upon permission of the Faculty, subject to the student's previous record and current Faculty limitations on enrolment, but will be required to re-audition. Students who have completed their required practical examinations and are returning to fulfil academic courses are not required to re-audition. Students who are uncertain of the re-audition regulations are urged to contact the Senior Student Adviser.

Students wishing to return in the Winter or Summer term must submit a request in writing to the Music Student Affairs Office, giving a summary of their activities during their absence. The deadline for the Winter session is November 15; for the Summer session, April 1; for the Fall session, January 15 for students who must re-audition, and June 1 (no audition).

11.6.8 Tuition Fees

General information on *Tuition* and *Other Fees* can be found in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Fees > section 1.4.2: Tuition Fees*. The University reserves the right to make changes without notice in the published scale of fees.

Individual practical instruction on a main instrument or voice as indicated in the various degree and diploma programs (see [section 11.5.1: Degrees and Diplomas Offered](#)) is included at the per-credit rate and the practical instruction fee of \$500 per term only while the student is full-time, and for a maximum number of years according to the following table:

Table 1: Entitlement

Maximum Years of Practical Instruction at the per-credit rate, 1 hour per week		
Category of Student (based on academic entrance qualifications)	B.Mus. (Perf. or Jazz Perf.)	B.Mus. (non-perf. Concentration*)
High School graduates (Gr.12) [Canadian, except Quebec; United States; Overseas]	5 years	3 years
CEGEP graduates [Holders of DEC or DCS in Music or a non-Music specialization]	4 years	2 years
Transfer students [from other colleges, universities, or McGill faculties] or degree holders	4 years	2 years
Mature Students [without above academic qualifications but who are 21 years old as of Sept. 1]	4 years	2 years

* Composition, Music Education, Music History, Theory, Faculty Program

L.Mus. students are entitled to practical instruction at the per-credit rate for a maximum of four years, 1 hour per week; Artist Diploma students, two years, 1.5 hours per week.

The maximum of four years of practical instruction for L.Mus. students includes instruction received while in a B.Mus. program either during or prior to registration in the L.Mus. program.



Note: **Part-time students** in the B.Mus. and L.Mus. programs and those who have exhausted the above-listed maxima will be charged \$785 per term (\$1,570 per year) for practical instruction in addition to the per-credit fees and the practical instruction fee of \$500. (Artist Diploma students: \$1,175 per term or \$2,350 per year.)

Special or part-time **Visiting** Students who are permitted to enrol for practical instruction will also be charged an extra \$785 per term, in addition to the per-credit fees and the practical instruction of \$500, as will all other students taking instruction in a **second practical subject**.

Voice Coaching (MUIN 300, MUIN 301) is available at the per-credit rate for a maximum of two terms for full-time voice students only. In all other cases, the extra fee for this course is \$550 per term.

Special students in the **Opera Studio** will be charged an additional \$680 per term (\$1,360 per year). Degree or diploma candidates registered in Opera Studio, as well as Special Students taking practical instruction at \$785 per term, will be charged the per-credit fee for Opera Studio. Students in the Minor in Early Music programs will be charged an additional \$785 for three credits of Early Music Minor Repertoire Coaching and/or Practical Lessons Performance Minor.

11.7 Academic Information

Students are required to be punctual at all classes and lessons. Grades in theoretical subjects are calculated on the basis of class work and/or examinations. Students are warned that by missing examinations or class work they risk failure in the subject concerned.

11.7.1 Ensemble Policy and Regulations

11.7.1.1 Preamble

The ensemble program is designed to provide an enriched and cohesive curriculum in practical musicianship for every student. Much of this training is accomplished in ensembles (instrumental, choral ensemble, or specialized) for the duration of a student's studies.

Students are responsible for checking their program requirements carefully in order to verify and fulfil Large (Basic) and Small (Assigned) ensemble requirements; the Performance Department does not follow the particular enrolment of any student's participation in their Large (Basic) or Small (Assigned) ensembles.

For each program's Large (Basic) and Small (Assigned) ensemble requirements, a student should refer to the appropriate section of the Undergraduate Programs, Courses and University Regulations publication (all Undergraduate, Licentiate, and Artist Diploma requirements are found under [section 11.8.2: Department of Performance](#); graduate programs are in the Graduate and Postdoctoral Studies Programs, Courses and University Regulations publication also available at www.mcgill.ca/study).

In cases where a student studying an orchestral instrument (see [section 11.7.1.2: Large \(Basic\) Ensemble and Small \(Assigned\) Ensembles](#)) is registered for additional academic sessions, he/she must also register for a (Large) Basic ensemble for each additional session. (For exemptions, see [section 11.7.1.11: Exemption from a Required Ensemble](#).)

Small (Assigned) Ensembles: Generally, all students registered as full-time or part-time students in a Performance Department program must audition for, and participate in, a Small (Assigned) ensemble.



Note: In all cases where the term "Director" of an ensemble is used, it is understood to mean the conductor, director, stage director, or coach of the ensemble.

The following policy and regulations apply to all students performing in all ensembles, large or small, required, complementary, or elective. They apply also to all students who have been assigned to an ensemble for any reason, including conducting students, composers- and arrangers-in-residence, and others.

11.7.1.2 Large (Basic) Ensemble and Small (Assigned) Ensembles

For ensemble purposes, the orchestral instruments include flute, oboe, clarinet, bassoon, saxophone, french horn, trumpet, trombone, tuba, percussion, harp, violin, viola, cello, and double bass. Voice majors may choose from a group of vocal and choral ensembles appropriate to the level of their development.

In all programs which specify Small (Assigned) ensembles, the following are considered Small (Assigned) ensembles:



Note: Beethoven Orchestra (MUEN 567) does not count toward Small (Assigned) ensemble credits.

Small Ensembles

MUEN 556	Introduction to Collaborative Piano 1
MUEN 557	Introduction to Collaborative Piano 2
MUEN 560	Chamber Music Ensemble
MUEN 562	Guitar Ensemble
MUEN 570	Jazz Combo

Small Ensembles

MUEN 578	Song Interpretation 1
MUEN 579	Song Interpretation 2
MUEN 580	Early Music Ensemble
MUEN 581	Piano Ensemble Seminar 1
MUEN 582	Piano Ensemble Seminar 2
MUEN 584	Studio Accompanying
MUEN 585	Sonata Masterclass
MUEN 589	Woodwind Ensembles
MUEN 598	Percussion Ensembles

11.7.1.3 Additional Ensembles

Additional ensembles chosen by students in non-performance programs to reflect their particular interests may, with Departmental approval, be applied as Music and/or Free Elective credit. Students in performance may apply a maximum of four credits as Complementary Performance Courses. Students electing an ensemble will normally be required to participate in the ensemble placement auditions and will be placed accordingly. Performance majors, as well as sufficiently advanced players and singers from other programs, are encouraged to participate in one or more Small (Assigned) ensembles that match their particular interest.

11.7.1.4 Assignment and Auditions

All students registered as full-time or part-time students in the Department of Performance must audition for a Large (Basic) ensemble in the beginning of the school year. (If a mid-year audition is offered for a particular year or ensemble, notice will be given to students.)

Auditions for Large (Basic) and Small (Assigned) ensembles are mandatory. Information on all auditions for ensembles can be found on the ensembles website: www.mcgill.ca/music/ensembles.

A student who cannot take the ensemble auditions at the times indicated on the website must contact the Ensemble Resource Administrator at least two (2) weeks before the date of the audition. The student must submit, in writing, the reason for his/her lack of availability and, if applicable, submit a recording of his/her audition materials prior to the day of the auditions. If a student misses an audition with an accepted reason, but does not deliver the audition materials to the Department, or if a student misses an audition for reasons unacceptable to the Performance Department, that student will not be allowed to audition and his/her assignment will be left entirely to the discretion of the Performance Department.

Assignments for Large and Small ensembles are posted on the ensemble notice boards located in the main hallway of the Strathcona Music Building. Reassignments may be made from time to time during a term and will be communicated to students. A student registered in a Performance Department who is not assigned a Large (Basic) ensemble following the ensemble placement auditions should take a choral ensemble as their Large (Basic) Ensemble.

11.7.1.5 Commitment

Ensembles are courses. Each student who has registered for an ensemble, or who has been assigned to an ensemble, has made a commitment to the ensemble and is required to attend all rehearsals, concerts, performances, field trips, recordings, and other activities, which constitute the course requirements of that ensemble. Except for reasons of ill health or in the case of an excused absence, any unexcused absence may result in a failing grade for the student. If rehearsals outside class meeting times occur, advance notice will be given. These additional rehearsals will be avoided when possible.

11.7.1.6 Failing Grade

A failing grade in any of the ensembles (large, small, complementary, or elective) obliges the student to make up the credit during a later semester. A subsequent failure in the same course may result in the student being required to withdraw from the program.

11.7.1.7 Request to be Excused from a Rehearsal

ANY STUDENT WHO CANNOT ATTEND A REHEARSAL FOR A LARGE (BASIC) ENSEMBLE IS REQUIRED TO FILL OUT AN “ENSEMBLE EXCUSE FORM.” THIS FORM IS AVAILABLE ON THE ENSEMBLE PAGE OF THE SCHULICH SCHOOL OF MUSIC (www.mcgill.ca/music/ensembles).



Note: For Opera McGill policies, please contact the Opera McGill Department directly (opera@music.mcgill.ca).

Students are required to submit a completed form at least eight (8) days prior to the rehearsal that will be missed, stating the reason for the request and providing sufficient proof. Students who have missed a rehearsal due to illness must submit a form within three (3) days of returning to school. **In such cases, a doctor's certificate or statement from the Student Health Service or equivalent must be submitted electronically, via email, or in hard copy to the office of the Ensemble Resource Administrator.**

Students may be excused from a rehearsal of an ensemble for the following reasons; however, submitting a form with one of these reasons does not guarantee approval of a request:

1. Sickness, or emergency medical or dental work



IMPORTANT NOTE: ANY STUDENT WHO IS EXPERIENCING PAIN WHILE PLAYING OR SINGING SHOULD INFORM THEIR PRACTICAL TEACHER AND THE DIRECTOR OF THEIR ENSEMBLE(S), AND SHOULD SEEK APPROPRIATE MEDICAL ATTENTION. Students should not be reluctant to admit to injury; *it is entirely acceptable for students to be excused from ensemble rehearsal(s) for health reasons*. The School does not want students to perform with pain or with injury. If a student is experiencing pain while playing, then he/she is permitted to sit in rehearsal in their assigned place without playing in the rehearsal.

2. An audition for a permanent professional engagement
3. A master class
4. A major competition
5. A professional engagement deemed to be very important for a student's developing career
6. Family emergency or an especially important family occasion
7. A conflict between an irregularly scheduled ensemble rehearsal and a previous important commitment made by the student (proof required)
8. A field trip for another ensemble or class
9. An authorized McGill function
10. A religious holiday

For reasons 2, 3, 4, and 5, the request must be accompanied by authorization from the student's practical teacher and the appropriate Area Chair. This permission is given for no more than three (3) rehearsals.



Note: NO PERMISSION IS GIVEN TO BE EXCUSED FROM A REHEARSAL IN THE CONCERT WEEK, DRESS REHEARSAL, OR FROM A CONCERT EXCEPT FOR REASONS 1 AND 2 ABOVE.

Students are not excused from ensemble rehearsals for either of the following reasons:

1. Gigs, including orchestra engagements
2. Non-emergency medical or dental appointments. Students should request appointment times that do not conflict with rehearsals.

Absences or tardiness without an approved Ensemble Excuse Form will result in a final mark deduction as follows:

- Absences due to illness (with Medical Certificate, audition notification, or other accepted reasons) = no loss of grade
- Tardy to rehearsal, without approved Ensemble Excuse Form = loss of one grade point (i.e., B to B-)
- Absences without approval = loss of one entire letter grade (i.e., A to B)

11.7.1.8 Preparation

If the Director of an ensemble is not satisfied with the quality of preparation that a student has been making for the ensemble, the Director shall first warn the student. This warning shall be communicated by the Director to the Ensemble Resource Administrator and Area Chair, who shall inform the student in writing. If, in the Director's opinion, this lack of preparation continues, further action will be taken to remedy the situation.

For any particular performance, if—after a written warning to the student(s) at least two (2) weeks prior to the performance, with copies to the Ensemble Resource Administrator, practical instruction teacher, Area Chair, and Department Chair—the Director, in consultation with his/her coaches, feels that the performance of a student or group of students will not meet a certain minimum standard established by the Director, the Director may cancel a student's participation in a performance.

11.7.1.9 Discipline

The Director of an ensemble may recommend that a student withdraw from an ensemble for disciplinary reasons. A student asked to do so will be required to appear before the Department Chair, Area Chair, and Director to show cause why he or she should not be required to withdraw.

Students who are required to withdraw from an ensemble for reasons of lack of preparation or discipline will be given a grade of F, which will be reflected in their Grade Point Average (GPA).

11.7.1.10 Withdrawal

Withdrawal for any reason obliges the student to make up the credit(s) during a later semester.

11.7.1.11 Exemption from a Required Ensemble

In order to be given permission not to participate in a required ensemble for a term or part thereof, a student must:

1. be a participant in a major national or international competition, or (in the case of voice students) be given a significant role with a recognized performing arts ensemble, and (in the case of all students) have completed the minimum number of required terms of the ensemble, and have the permission of:

- his or her practical teacher
 - the Area Chair
 - the Director of the ensemble
2. have completed all program requirements except the final exam on his or her instrument, or
 3. have completed all musical requirements of his or her program, having only non-music and/or free electives remaining, or
 4. have a significant medical reason.



Note: Permission to not participate in a required or complementary ensemble for a term or part thereof is not an exemption and does not satisfy any credit requirements for a degree.

11.7.1.12 Substitution of an Ensemble

1. In order to be given permission to substitute another large ensemble for a required or complementary large ensemble for a term, a student must:
 - have completed the minimum number of terms in the required or complementary large ensemble;
 - however, if a student does satisfy the above requirements (first bullet) under [section 11.7.1.11: Exemption from a Required Ensemble](#), the Director of the required or complementary large ensemble may refuse consent if the student is needed in that ensemble.
2. Keyboard and Guitar Performance majors in all programs may substitute up to two (2) terms of Studio Accompanying (MUEN 584) for two (2) terms of choral ensembles.
3. Performance majors are not permitted to substitute Large (Basic) ensemble credits for required or complementary Small (Assigned) ensemble credits.

11.7.1.13 Rotation in Large (Basic) Ensembles

When possible, and to help ensure equal opportunity and experience for students in the large instrumental ensembles, the seating of students in these ensembles may be rotated periodically throughout the term or year. The Director of the ensemble, along with the guidance of the Area Chairs and/or practical instruction teachers, will determine whether or not rotation is possible.

11.7.1.14 Transfer Credits

The previous ensemble participation of students coming to McGill from other universities will be recognized if their ensemble experience was similar to that required by the Schulich School of Music; determination of this experience will be approved by the Area Chair and the Department Chair. In general, transfer credit is made on a term-for-term basis (not by credits) and usually does not exceed two (2) terms. Students are normally not permitted to reduce the Large (Basic) ensemble training requirements of their McGill program to less than the number of terms required for them to complete the rest of their program. In such cases, transfer credit may be given as Music and/or Free Elective credit for students in non-performance programs. Students in performance may apply a maximum of four credits as Complementary Performance Courses.

11.7.1.15 Extra Large (Basic) Ensemble Credits

Large (Basic) ensemble credits accumulated above the minimum may be applied as Music and/or Free Elective credits for students in non-performance programs. Students in performance may apply a maximum of four credits as Complementary Performance courses. Participation in additional large or Small (Assigned) ensembles implies that the same policies will apply.

11.7.1.16 Performance Library

Students are responsible for the music that has been loaned to them for their use, and for its return in good condition to the Gertrude Whitley Performance Library. Students will be required to pay for the replacement of any music that has been lost, stolen, or damaged, and a hold on a student's Minerva account can be placed by the Performance Librarian should music or fines not be handed in to the Library.

11.7.2 Accompanying

Music students registered for practical instruction (including elective study) in one of the eligible instruments may request Accompanist Funding up to a maximum number of hours. Further details are available from the Department of Performance Office (performance.music@mcgill.ca).

11.7.3 Academic Category

All Music students are registered in one of the following categories:

Academic Categories

Major: B.Mus. candidates may choose one or more of several majors as described under [section 11.8: Programs of Study](#).

Faculty Program: A general B.Mus. program (see [section 11.8.1.4: Bachelor of Music \(B.Mus.\) - Faculty Program Music \(123 credits\)](#)).

L.Mus., Artist Dip.: Diploma programs are designed for advanced instrumentalists and singers who wish to concentrate on their practical subject.

Academic Categories

Special: Those who are not proceeding towards a degree or diploma.

Visiting: Those taking courses at McGill for credit towards a degree at another university.

11.7.4 Auditing

For information on auditing, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.17: Auditing of Courses.*

11.7.5 Free/Music Electives

Unless otherwise specified, any music course that is not a required course in the student's program can be counted as a Free and/or Music Elective in the B.Mus. or Artist Diploma program subject to prerequisites and room in course. Ensemble credits accumulated above the minimum may be applied as Free and/or Music Elective credits in **non-performance programs only**. Under certain conditions, three credits per term of practical instruction may be applied as Free and/or Music Electives only if the lessons are taken after completion of the final examination and/or completion of the number of terms designated in the student's program. Consult the Music Student Affairs Office for details.

11.7.6 Non-Music Electives

In all B.Mus. programs, students are required to complete a minimum of three (3) elective credits from courses offered by other faculties. Students admitted from high schools outside Quebec, not holding a DCS, must complete an additional six (6) credits of non-Music electives (as part of the program prerequisites – Freshman program) for a total of nine (9) credits. **Students should note that certain programs have requirements in addition to the above.**

Students holding a DCS in Music are exempt from six (6) credits, and students holding a DCS in a non-Music program are exempt from 12 credits of non-Music electives. These credits will be counted towards the non-Music and/or free elective requirement.

The Schulich School of Music allows up to a maximum of 12 credits of English Second Language courses, including academic writing courses for non-anglophones, to students whose primary language is not English and have studied fewer than five years in an English-language secondary institution.

Placement tests are required for all ESL courses. For more information on placement tests, see www.mcgill.ca/mwc. Soon after the tests are evaluated, you will be issued a departmental approval for course registration.

11.7.7 Distance Education (Online) Courses

Students may take a maximum of six credits of non-Music elective courses taught through distance education toward their B.Mus. degree at McGill. Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:

- The course is given by a government-accredited, degree-granting institution acceptable to McGill.
- The course counts for credit toward degrees granted at the institution giving the course.
- Prior approval for the course is obtained from the Music Student Affairs Office.

11.7.8 Course Changes

Students are permitted to change courses and/or sections of a course during the first two-week period of classes in each term. This is referred to as the official Course Change period. Course and section changes are made by the student, using Minerva to access his/her record directly. Worksheets for this purpose are available at the Music Student Affairs Office on the 7th floor of the New Music Building. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.8: Course Change Period.*

Late course change requests, if approved, will be charged the applicable Late Course Change Fee. No charge will be made for late changes imposed by the Faculty. If students' registrations must be corrected after the Course Change period to bring their records into conformity with the courses they are actually taking, the students will be charged the late fee. For complete information on administrative fee charges and fines, please consult the Student Accounts website www.mcgill.ca/student-accounts/fees/adminfees.

11.7.9 Withdrawal from Course(s)

Students are permitted to withdraw from courses other than practical instruction or ensembles after the end of the Course Change period. In such cases, the student's mark in the course will be W. Course withdrawals are also processed on Minerva, within permissible dates. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.9: Regulations Concerning Course Withdrawal.*

The final deadlines for withdrawing from Music courses are:

- *For a one-term course:* The end of the seventh week of classes.
- *For a two-term course:* The end of the Course Change period in the second term.

Music students who, in special circumstances such as illness or injury, are given permission to withdraw from practical instruction after the end of the Course Change period will be charged \$65 per week for 1-hour lessons and \$97.50 per week for 1.5-hour lessons up to a maximum equivalent to the total fees charged for the course. Full refunds for practical instruction will be given up to the end of the Course Change period.

For information on the REFUND POLICY, please see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.9: Regulations Concerning Course Withdrawal](#)*.

11.7.10 Incompletes

At the discretion of the instructor, a mark of K (Incomplete) may be given to a student who, due to extenuating circumstances, has not finished the coursework on time. The deadline for completion and submission of the required work shall be set by the instructor but may not be later than four months after the K was given. A special form for Incompletes, available from the Music Student Affairs Office, must be signed by the student and the instructor by the last day of lectures. If the final grade is not received within the specified timeline (as agreed by the instructor and student), the mark will be changed to KF (Incomplete Failed), unless an extension has been granted (KE). Completion of the course will cause the K to be replaced on official transcripts by the mark earned. A mark of K not cleared by mid-May makes the student ineligible for scholarships.

In exceptional cases, when research or an assignment cannot be completed for reasons beyond the student's control, students may be given permission by their Departmental Chair or the Associate Dean (Student Affairs) to leave a course permanently Incomplete (without penalty). The symbol K will be replaced by KK, in which case the student's Grade Point Average will be calculated without including this course.

11.7.11 Deferrals

Deferred examinations are permitted in the case of illness or other exceptional circumstances. Music students requesting a deferred examination in academic courses must submit the Request for a Deferred Examination form to the Senior Student Adviser. Students requesting a deferred examination in a practical music examination must submit the form to the Performance Department Chair. Supporting evidence such as an appropriate medical note is required. If the request is approved, an L (deferred) will appear in place of a grade. The grade obtained in the deferred examination will replace the grade of L (deferred) on the official transcript.

Deferred examinations in Music academic courses are given at the discretion of the instructor. A deferred examination in a Music practical examination will be held during the next examination period.

Deferred examinations in non-Music courses will be held in May for the Fall term and August for the Winter term. Examinations will follow the rules of the faculty concerned. **It is the student's responsibility to check the date, time, and place of the deferred examination.**

A mark of L (deferred) not cleared by mid-May makes the student ineligible for scholarships.

Students who are unable to write a deferred exam must contact the Music Student Affairs Office immediately to initiate a withdrawal from the deferred exam. Deferred examinations cannot be written at a later date. If the withdrawal is not approved, a final grade of J (absent) will be entered and will count as a zero in the TGPA/CGPA.

11.7.12 Supplementals

Supplemental examinations in Music academic courses may be given at the discretion of the instructor. A student who receives a mark below 30% in a course is not permitted to take a supplemental examination but must repeat the course.

11.7.13 Rereading of Examinations

A student wishing to have an examination paper reread should apply in writing to the Associate Dean (Student Affairs). The mark given in the rereading, whether higher or lower, will replace the mark originally given. Any request to have a term paper or other coursework reassessed must be made directly to the instructor concerned.

11.7.14 Academic Standing

Academic Standing is based primarily on students' cumulative grade point average (CGPA), but may also be affected by their term grade point average (TGPA). Academic Standing, which is assessed after the end of each term, determines if students will be allowed to continue their studies in the next term and if any conditions will be attached to their registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which students have deferred examinations and Fall-term grades for courses that span the Fall and Winter terms do not affect Academic Standing for the Fall term, even though they will ultimately affect students' Fall TGPA. Therefore, Academic Standings for the Fall term are designated as "interim" and should be interpreted as advisory; moreover, interim Standings will not appear on external transcripts. **Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions.**

11.7.14.1 Satisfactory/Interim Satisfactory Standing

Students in Satisfactory Standing may continue in their program.

- New students are admitted to Satisfactory Standing.
- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.

11.7.14.2 Probationary/Interim Probationary Standing

Students in Probationary Standing may continue in their program, but must carry a reduced load (maximum 14 credits per term) and raise their TGPA and CGPA to return to Satisfactory Standing. They should see their departmental adviser to discuss their course selection.

Students in Interim Probationary Standing may continue in their program, but should evaluate their course load and reduce it as appropriate. They are strongly advised to consult their departmental adviser, before the withdrawal deadlines, about their course selection for the Winter term.

- Students who were previously in Satisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99.
- Students who were previously in Probationary Standing will remain in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher, although the TGPA requirement will not apply to the Summer term.
- Students who were previously in Interim Unsatisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher.
- Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Student Affairs) will be placed in Probationary Standing if their CGPA is less than 2.00, but if they satisfy relevant conditions specified in their letter of readmission.

11.7.14.3 Readmitted Unsatisfactory Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean will have their Standing changed to readmitted Unsatisfactory Standing. Their course load is specified in their letter of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see the Senior Student Adviser to discuss their course selection.

11.7.14.4 Unsatisfactory/Interim Unsatisfactory Standing

Students in Interim Unsatisfactory Standing may continue in their program, but should evaluate their course load and reduce it as appropriate. They are strongly advised to consult the Senior Student Adviser, before the withdrawal deadlines, about their course selection for the Winter term.

Students in Unsatisfactory Standing who have failed to meet the minimum standards set by the Faculty may not continue in their program and their registration will be cancelled.

Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Associate Dean no later than July 15 for readmission to the Fall term and November 15 for the Winter term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). Students in Unsatisfactory Standing for the second time must withdraw permanently.

Normally, supplemental examinations are not permitted; however, students in Unsatisfactory Standing may appeal to the Senior Student Adviser for permission to write a supplemental examination, clearly stating the reasons for special consideration and providing proof as appropriate.

- Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term) if their CGPA falls or remains below 1.50.
- For the Fall and Winter terms, students who were previously in Probationary, Readmitted Unsatisfactory, or Interim Unsatisfactory Standing will be placed in Unsatisfactory Standing if their TGPA falls below 2.50 and their CGPA is below 2.00.
- Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Student Affairs) who have not at least satisfied the conditions to attain Probationary Standing that were specified in the letter of readmission will be placed in Unsatisfactory Standing.

11.7.14.5 Incomplete Standings

Standing awaits deferred exam.

Must clear K's, L's, or Supplementals.

Standing Incomplete

Students with Incomplete Standings in the Winter or Summer term may register for the Fall term, but their Standing must be resolved by the end of the Course Change Period for that term. Students whose Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing may continue in their program. Students whose Standing changes to Unsatisfactory Standing may not continue in their program.

Students whose Standing changes to Unsatisfactory and who wish to ask for permission to continue in their program must make a request to the Associate Dean (Student Affairs) as soon as they are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation).

Students whose Standing is still Incomplete by the end of the Course Change period should immediately consult with the Music Student Affairs Office.

11.7.15 Graduation Requirements

1. Completion of all courses and proficiency requirements specified in the candidate's program. Students registered in two programs must fulfil all requirements for both programs. A minimum grade of C (or higher, depending on the program) must be achieved in all required courses, all complementary courses specified by course number, and in those courses which are prerequisites or corequisites. A grade of D (non-continuation pass) is acceptable only in elective courses or complementary courses that are not specified by course number.
2. Minimum cumulative grade point average of 2.00.

3. Completion of a minimum of credits in residence at McGill University (B.Mus.: 60 credits, L.Mus.: 48 credits, Artist Dip.: 32 credits).

For more information on applying to graduate, see www.mcgill.ca/student-records/graduation/graduation-info.

11.7.16 Graduation Honours

For information on the designation of Dean's Honour List awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > section 1.9.1: Graduation Honours: Dean's Honour List*.

For information on the designation of Distinction awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > section 1.9.2: Graduation Honours: Distinction*.

Departments may recommend to the Faculty that students be awarded Outstanding Achievement in recognition of superior performance on an instrument or in an academic discipline.

11.8 Programs of Study

The Department of Music Research offers undergraduate degrees in Composition, Music Education, Music History, Theory, and the Faculty Program. The Department also offers Minors in Music History, Composition, Music Education, Music Theory, and two Minors in the area of Music Technology.

The Department of Performance offers undergraduate degrees in Performance, Early Music Performance, and Jazz Performance; diploma programs in L.Mus. and the Artist Diploma; and a Minor in Early Music Performance.

11.8.1 Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program

At both the undergraduate and graduate levels, the Department embraces the disciplines of Composition, Music Education, Music History, and Theory; and at the graduate level, Music Technology and Sound Recording. The philosophy of the Department is to encourage integration of the disciplines as much as possible within the learning process in each program of study: the development of basic musicianship, the absorption of the grammar and syntax of musical discourse, and the study of the world of ideas are understood as interconnected.

Major programs offer the student some focus with the flexibility to pursue other areas of interest. The Faculty program is intended to offer an option for individual and creative plans of study. All of the Department's programs give a solid grounding in analytic, synthetic, and writing skills that are useful preparation not only for the musical profession but also for professions as diverse as law, journalism, management, and librarianship.

The Music Education program combines an orientation towards a professional career in primary and secondary schools with sensitivity to broader intellectual frameworks against which teachers should understand their roles. This program is offered concurrently with the B.Ed., Music (see [section 11.8.3: B.Mus./B.Ed. Bachelor of Music and Bachelor of Education Concurrent Program](#)).

The Department also offers a Minor in Composition, a Minor in Music Education, a Minor in Music History, and a Minor in Music Theory to students who seek to place their work in a larger context, as well as a Minor in Musical Applications of Technology and a Minor in Musical Science and Technology to Music students and to students from other faculties.

For each program, all courses listed are REQUIRED courses unless otherwise indicated.

11.8.1.1 Bachelor of Music (B.Mus.) - Major Composition (124 credits)

The Bachelor of Music (B.Mus.) - Major Composition program requires 91 credits (plus 33 credits for the Freshman requirement for out-of-province students).

It includes 21 credits of non-music and free elective courses so that students may pursue other academic interests outside of music.

Program Prerequisites - Freshman Program (33 credits)

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2

MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (60 credits)

60 credits selected as follows:

36 credits of Composition

9 credits of Theory

6 credits of Musicianship

3 credits of Music History

6 credits of Performance

Composition

MUCO 245D1	(2)	Composition 1
MUCO 245D2	(2)	Composition 1
MUCO 261	(2)	Orchestration 1
MUCO 340D1	(2)	Composition 2
MUCO 340D2	(2)	Composition 2
MUCO 341	(3)	Digital Studio Composition 1
MUCO 342	(3)	Digital Studio Composition 2
MUCO 360	(2)	Orchestration 2
MUCO 440D1	(2)	Composition 3
MUCO 440D2	(2)	Composition 3
MUCO 460	(2)	Orchestration 3
MUCO 462	(3)	Advanced Tonal Writing
MUCO 541	(3)	Advanced Digital Studio Composition 1
MUCO 542	(3)	Advanced Digital Studio Composition 2
MUCO 575	(3)	Topics in Composition

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUSP 346	(2)	Post-Tonal Musicianship

Music History

MUHL 286	(3)	Critical Thinking About Music

Performance

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Courses (10 credits)

10 credits selected as follows:

6 credits from Music History

4 credits from Performance

Music History

MUHL 385	(3)	Early Twentieth-Century Music
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945

Performance

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Non-Music Electives (3 credits)**Free Electives (18 credits)****11.8.1.2 Bachelor of Music (B.Mus.) - Major Music History (124 credits)**

Please note that this program is currently under review.

The Bachelor of Music (B.Mus.) - Major Music History program requires 91 credits (plus 33 credits for the Freshman requirement for out-of-province students).

Program Prerequisites - Freshman Program (33 credits)

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required History (6 credits)

MUHL 286	(3)	Critical Thinking About Music
MUHL 570	(3)	Research Methods in Music

Complementary History (24 credits)

24 credits selected from Group I, II, and III, with a minimum of 6 credits from each group.

Group I

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUPP 381	(3)	Topics in Performance Practice
MUTH 426	(3)	Topics in Early Music Analysis

Group II

MUHL 366	(3)	The Era of the Fortepiano
MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 386	(3)	Chamber Music Literature
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 389	(3)	Orchestral Literature

MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 396	(3)	Era of the Modern Piano
MUHL 397	(3)	Choral Literature after 1750
MUHL 398	(3)	Wind Ensemble Literature after 1750

Group III

MUHL 314	(3)	Women in Music: A Cross-Cultural Perspective
MUHL 330	(3)	Music and Film
MUHL 342	(3)	History of Electroacoustic Music
MUHL 362	(3)	Popular Music
MUHL 375	(3)	Introduction to Ethnomusicology
MUHL 393	(3)	History of Jazz
MUHL 529	(3)	Proseminar in Musicology
MUTH 541	(3)	Topics in Popular Music Analysis

Required Courses (19 credits)

9 credits from Theory

4 credits from Musicianship

6 credits from Performance

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Performance

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Courses (9 credits)

3 credits from Theory

2 credits from Musicianship

4 credits from Performance

Theory

3 credits of MUTH courses at the 200 or 300 level.

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Performance

Basic Ensemble

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Non-Music Electives (9 credits)

Free Electives (24 credits)

11.8.1.3 Bachelor of Music (B.Mus.) - Major Theory (124 credits)

The Bachelor of Music (B.Mus.) - Major Theory program requires 91 credits (plus 33 credits for the Freshman requirement for out-of-province students).

Program Prerequisites - Freshman Program (33 credits)

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, select all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1

MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (24 credits)

24 credits of required courses selected as follows:

9 credits of Theory

6 credits of Musicianship

3 credits of Music History

6 credits of Performance

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

6 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUSP 346	(2)	Post-Tonal Musicianship

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Performance

6 credits

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Courses (40 credits)

40 credits selected as follows:

30 credits of Theory (Complementary)

6 credits of Music History

4 credits of Performance

Theory

30 credits

6 credits selected from:

MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2

6 credits selected from:

MUTH 321	(3)	Topics in Tonal Analysis
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 426	(3)	Topics in Early Music Analysis
MUTH 541	(3)	Topics in Popular Music Analysis

6 credits selected from:

MUTH 528	(3)	Schenkerian Theory and Analysis
MUTH 529	(3)	Proseminar in Music Theory
MUTH 538	(3)	Mathematical Models for Musical Analysis

12 credits selected from courses not taken above and the following:

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUTH 539	(3)	Topics in Advanced Writing Techniques

Music History

6 credits of courses with an MUHL or MUPP prefix.

Performance

4 credits selected from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Non-Music Electives (9 credits)**Free Electives (18 credits)****11.8.1.4 Bachelor of Music (B.Mus.) - Faculty Program Music (123 credits)**

The Bachelor of Music (B.Mus.) - Faculty Program Music requires 123 credits and has been designed to accommodate those students who are either undecided about the area of music in which they wish to specialize, or who are interested in a pattern of specialization not provided in the established major programs, or who are interested in combining studies in music with studies in other disciplines. Students registered in the Faculty Program may, with the approval of a staff adviser, design their own programs around specific interests or develop programs with a broader base by incorporating courses from other disciplines and faculties.

Program Prerequisites - Freshman Program (33 credits)

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite courses

4 credits of Basic Ensemble Training

6 credits of non-Music electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (22 credits)

22 credits of the required courses are selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Performance

6 credits

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Courses (12 credits)

Music History

6 credits

(Courses with a MUHL or MUPP prefix may include MUHL 362 or MUHL 393, but not both.)

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Music Electives (20 credits)**Non-Music Electives (3 credits)****Free Electives (33 credits)****11.8.1.5 Special Prerequisite Courses for M.Mus. in Sound Recording**

Note: changes are anticipated in the Special Prerequisite Courses for M.Mus. in Sound Recording. For the most up-to-date information, consult the Sound Recording Program website: <http://sites.music.mcgill.ca/sr/admission>.

Students wishing to follow this package of prerequisite courses while registered in the Faculty Program or in any other B.Mus. program must notify the Sound Recording Area Chair of their intent to do so.

Schulich School of Music (27 credits)

MUCO 260	(3)	Instruments of the Orchestra
MUMT 202	(3)	Fundamentals of New Media
MUMT 203	(3)	Introduction to Digital Audio
MUSR 232	(3)	Introduction to Electronics
MUSR 300D1	(3)	Introduction to Music Recording
MUSR 300D2	(3)	Introduction to Music Recording
MUMT 301	(3)	Music and the Internet
MUSR 339	(3)	Introduction to Electroacoustics
One of (complementary):		
MUMT 302	(3)	New Media Production 1
MUMT 306	(3)	Music and Audio Computing 1

Faculty of Science (3 credits)

PHYS 224	(3)	Physics of Music



Note: Students admitted as a Special Student in the prerequisite package for Sound Recording must meet with the Sound Recording Adviser prior to registering in MUMT (Music Technology) courses. In order to be considered for admission to the Master of Music in Sound Recording, students must attain a minimum grade of B in all of the above courses and must have a B.Mus. degree with a minimum CGPA of 3.00.

11.8.1.6 Minor Composition (18 credits)

The Minor Composition is available to all students with approval (with the exception of students in the Major Composition.) This option will take the place of music and/or free electives.

Required Courses

MUCO 230	(3)	The Art of Composition
MUCO 260	(3)	Instruments of the Orchestra
MUCO 341	(3)	Digital Studio Composition 1

Complementary Courses (9 credits)

9 credits selected from

MUHL 385	(3)	Early Twentieth-Century Music
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 539	(3)	Topics in Advanced Writing Techniques

11.8.1.7 Minor Music Education (18 credits)

The Minor in Music Education is available to all students, with the exception of students in the concurrent B.Mus.; Major in Music Education/B.Ed.; Major in Music Elementary and Secondary program, subject to the approval of the Schulich School of Music. This Minor will take the place of free electives. The Minor Music Education has limited enrolment. Students must choose complementary courses from one of the three available streams.

Required Courses

MUGT 401	(3)	Issues in Music Education

Complementary Courses (15 credits)

15 credits selected from one of the following three streams:

Stream I: Studio Teaching

6 credits selected from:

MUGT 205	(3)	Psychology of Music
MUGT 355	(3)	Music in Early Childhood
MUGT 358	(3)	General Music for Adults and Teenagers

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

Stream II: Elementary Music

6 credits selected from:

MUCT 235	(3)	Vocal Techniques
MUCT 315	(3)	Choral Conducting 1
MUGT 205	(3)	Psychology of Music
MUGT 354	(3)	Music for Children
MUGT 355	(3)	Music in Early Childhood
MUIT 250	(3)	Guitar Techniques

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

Stream III: Secondary Music

6 credits selected from:

MUCT 235	(3)	Vocal Techniques
MUCT 315	(3)	Choral Conducting 1
MUGT 358	(3)	General Music for Adults and Teenagers
MUIT 201	(3)	String Techniques
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 250	(3)	Guitar Techniques
MUIT 302	(3)	Advanced Wind Techniques
MUIT 315	(3)	Instrumental Conducting
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

11.8.1.8 Minor Music History (18 credits)

Please note that this program is currently under review.

The Minor Music History is available to all students (with the exception of students in the Major in Music History). This option will take the place of music electives and/or free electives, as well as history, literature, and performance practice complementary courses.

History

3 credits of:

MUHL 570	(3)	Research Methods in Music

Complementary

15 credits selected from Music History complementary courses chosen freely from Groups I and II.

Note: MUHL 591D1 and MUHL 591D2 are selected together.

Group I

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUPP 381	(3)	Topics in Performance Practice

Group II

MUHL 330	(3)	Music and Film
MUHL 362	(3)	Popular Music
MUHL 366	(3)	The Era of the Fortepiano
MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 383	(3)	Classical Music
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 386	(3)	Chamber Music Literature
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 389	(3)	Orchestral Literature
MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 393	(3)	History of Jazz
MUHL 396	(3)	Era of the Modern Piano
MUHL 397	(3)	Choral Literature after 1750
MUHL 398	(3)	Wind Ensemble Literature after 1750

11.8.1.9 Minor Music Theory (18 credits)

The Minor in Theory is available to all students, with the exception of students in the Major Theory, subject to approval of the Schulich School of Music. This Minor will take the place of free electives in Music programs.

Complementary Courses

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUMT 250	(3)	Music Perception and Cognition
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 251	(3)	Theory and Analysis 4
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 321	(3)	Topics in Tonal Analysis
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis
MUTH 528	(3)	Schenkerian Theory and Analysis
MUTH 529	(3)	Proseminar in Music Theory
MUTH 538	(3)	Mathematical Models for Musical Analysis
MUTH 539	(3)	Topics in Advanced Writing Techniques
MUTH 541	(3)	Topics in Popular Music Analysis

11.8.1.10 Minor Musical Applications of Technology (18 credits)

The goal of this Minor is to provide instruction in practical and creative applications of technology for musical purposes. This program will help prepare students for production-oriented jobs in the creative arts.

This program is open to students from any discipline and has no prerequisites other than familiarity with computers. Application forms will be available from the Department of Music Research (research.music@mcgill.ca; Room A726A) in the Schulich School of Music from February 1 and must be completed and returned to the Department of Music Research by June 1. Late applications will not be accepted and no students will be admitted to the Minor in January. Successful applicants will be notified by June 20. Registration will be limited to available lab space.

Students will be selected on the basis of their previous background or experience in music technology and/or sound recording, their computer programming skills, their expressed interest in the program, and their Cumulative Grade Point Average.

Advising for the Minor is available from the Area Chair for the Music Technology Program. Further information on this program is available on the Music Technology website at: http://www.music.mcgill.ca/musictech/programmes_and_admissions.

Required Courses (12 credits)

12 credits, select all of the following:

MUMT 202	(3)	Fundamentals of New Media
MUMT 250	(3)	Music Perception and Cognition
MUMT 302	(3)	New Media Production 1
PHYS 224	(3)	Physics of Music

Complementary Courses (6 credits)

6 credits selected from:

Note: Students select MUSR 300D1 and MUSR 300D2 together.

MUHL 342	(3)	History of Electroacoustic Music
MUMT 301	(3)	Music and the Internet
MUMT 303	(3)	New Media Production 2
MUSR 300D1	(1.5)	Introduction to Music Recording
MUSR 300D2	(3)	Introduction to Music Recording

11.8.1.11 Minor Musical Science and Technology (18 credits)

This Minor focuses on interdisciplinary topics in science and technology as applied to music. The goal of the program is to help prepare students for commercial jobs in the audio technology sector and/or for subsequent graduate research study. This Minor is designed to serve students who already have a good background in the sciences and prior experience with Math and Computer Science courses.

Application forms will be available from the Department of Music Research (research.music@mcgill.ca; Room A726C) in the Schulich School of Music from February 1, and must be completed and returned to the Department of Music Research by June 1. Late applications will not be accepted and no students will be admitted to the Minor in January. Successful applicants will be notified by June 20.

Registration will be limited to available lab space. Selection is based on previous experience in math, computer programming, and related sciences, expressed interest in the program, and Cumulative Grade Point Average.

Advising for the Minor is available from the Area Chair for the Music Technology program. Further information on this program is available on the Music Technology website at: http://www.music.mcgill.ca/musictech/programmes_and_admissions.

Required Courses (15 credits)

15 credits, select all of the following:

MUMT 203	(3)	Introduction to Digital Audio
MUMT 250	(3)	Music Perception and Cognition
MUMT 306	(3)	Music and Audio Computing 1
MUMT 307	(3)	Music and Audio Computing 2
MUMT 501	(3)	Digital Audio Signal Processing

Complementary Courses (3 credits)

3 credits selected from:

MUMT 402	(3)	Advanced Multimedia Development
MUMT 502	(3)	Senior Project: Music Technology
PHYS 224	(3)	Physics of Music

11.8.2 Department of Performance

The Department offers undergraduate and graduate degree programs leading to the B.Mus., M.Mus., and D.Mus., and diploma programs leading to the L.Mus. and Artist Diploma in all areas of musical performance and a Graduate Diploma in Professional Performance. Programs include regular practical instruction available on all instruments and a highly developed ensemble program. The programs offer a number of major options including Orchestral Training, Solo, Jazz, and Early Music. The Orchestral Training program is one of the largest performance programs in North America. Many of its graduates are now members of professional orchestras throughout North America and Europe. McGill ensembles perform many concerts each year, including a number in centres across North America. McGill ensembles have performed at Carnegie Hall, *Le Grand Théâtre* [Quebec], the National Arts Centre, the International Buxtehude-Scheidt Festival, Lincoln Center, Roy Thomson Hall, Salle Wilfrid Pelletier, the International Association of Jazz Educators Convention in New Orleans, in Washington and Boston, Paris, London, and Cork [Ireland], at the Holetown Festival in Barbados, in Mexico, and throughout the United States and Canada. In addition, they have recorded for McGill Records. These recordings have received considerable critical acclaim and a number of awards, including a Noah Greenberg Award, three *Grand Prix du Disques*, and a Juno Award.

Performance specialization is available in: Violin, Viola, Cello, Double Bass, Guitar, Harp, Flute, Oboe, Clarinet, Saxophone, Bassoon, Horn, Trumpet, Trombone, Euphonium, Tuba, Percussion, Piano, Fortepiano, Organ, Harpsichord, Voice, and Baroque Instruments (Violin, Viola, Cello, Viola da Gamba, Recorder, Flute, Lute, Oboe, Bassoon).

For each program, all courses listed are REQUIRED courses unless otherwise indicated.

11.8.2.1 Bachelor of Music (B.Mus.) - Major Performance Piano (125 credits)

The Bachelor of Music (B.Mus.) - Major Performance Piano program requires 90 credits (plus 35 credits for the freshman requirement for out-of-province students).

125 credits are selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

28 credits - Required Performance

14 credits - Complementary Performance

16 credits - Required Courses (Theory, Musicianship and Music History)

8 credits - Complementary Courses (Musicianship, Music History, Literature, or Performance Practice)

21 credits - Free Electives

3 credits - Non-Music Electives

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from MUSP 170 (but not from MUSP 171); see section on Keyboard Proficiency testing for complete information.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (28 credits)

28 credits, select all the courses below:

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 333	(0)	Piano Techniques 2

MUIN 369	(0)	Concerto
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 433	(0)	Piano Techniques 3
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3
MUPG 350	(2)	Introduction to Piano Pedagogy
MUPG 356	(2)	Piano Repertoire Studies 1
MUPG 357	(2)	Piano Repertoire Studies 2
MUPG 541	(2)	Senior Piano Seminar 1
MUPG 542	(2)	Senior Piano Seminar 2

Complementary Performance (14 credits)

Large Ensemble during the first four terms (2 credits x 4 semesters).

14 credits of complementary performance selected as follows:

8 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Assigned small ensemble - during every term of enrolment as a full-time or part-time student.

6 credits from:

MUEN 556	(1)	Introduction to Collaborative Piano 1
MUEN 557	(1)	Introduction to Collaborative Piano 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 581	(1)	Piano Ensemble Seminar 1
MUEN 582	(1)	Piano Ensemble Seminar 2
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass

Required Courses (16 credits)

16 credits of required courses selected as follows:

9 credits of Theory
 4 credits of Musicianship
 3 credits of Music History

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Complementary Courses (8 credits)

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists

Music History, Literature or Performance Practice (6 credits)

3 credits from:

MUHL 366	(3)	The Era of the Fortepiano
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 396	(3)	Era of the Modern Piano

3 credits from courses with a MUHL or MUPP prefix

Free Electives (21 credits)

(May not include courses with a MUEN prefix.)

Non-Music Electives (3 credits)

11.8.2.2 Bachelor of Music (B.Mus.) - Major Performance (Organ, Harpsichord, Guitar) (125 credits)

The Bachelor of Music (B.Mus.) - Major Performance (Organ, Harpsichord, Guitar) program requires 90 credits (plus 38 credits for the Freshman requirement for out-of-province students).

125 credits are selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

18 credits - Complementary Performance

16 credits - Required Courses (Theory, Musicianship and Music History)

8 credits - Complementary (Musicianship and Music History, Literature, or Performance Practice)

9 credits - Music Electives

3 credits - Non-Music Electives

18 credits - Free Electives

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from MUSP 170 (but not from MUSP 171); see section on Keyboard Proficiency testing for complete information.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (18 credits)

18 credits, select all the courses below:

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (18 credits)

Large Ensemble during every term of enrolment as a full-time or part-time student.

18 credits of complementary performance selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles

Assigned Small Ensemble - during every term of enrolment as a full-time or part-time student.

6 credits (1 credit per term) from:

MUEN 560	(1)	Chamber Music Ensemble
MUEN 562	(1)	Guitar Ensemble
MUEN 580	(1)	Early Music Ensemble

Required Courses (16 credits)

16 credits of required courses selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Complementary Courses (8 credits)

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Music History, Literature or Performance Practice

6 credits

(Courses with a MUHL or MUPP prefix)

Music Electives

Guitars: 9 credits of Music Electives

Harpichord majors must include the following:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Plus 3 credits of Music Electives

Organ majors must include the following:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo

Plus 5 credits of Music Electives

Non-Music Electives (3 credits)

Free Electives (18 credits)

(May not include courses with a MUEN prefix)

11.8.2.3 Bachelor of Music (B.Mus.) - Major Performance Voice (123 credits)

The Bachelor of Music (B.Mus.) - Major Performance Voice program requires 90 credits (plus 33 credits for the Freshman requirement for out-of-province students).

123 credits are selected as follows:

33 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

21 credits - Complementary Performance

25 credits - Required Courses (Theory, Musicianship, Music History, and Diction)

8 credits - Complementary Musicianship and History/Literature

3 credits - Non-Music Electives

15 credits - Free Electives

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams, ensembles, and voice coaching.

Program Prerequisites - Freshman Program (33 credits)

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (18 credits)

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (21 credits)

Ensemble - during every term of enrolment as a full-time or part-time student

12 credits of complementary performance selected from:

MUEN 496	(2)	Opera Studio
MUEN 554	(2)	Opera Excerpts
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

9 credits of complementary performance selected from:

MUIN 300	(2)	Voice Coaching 1
MUIN 301	(2)	Voice Coaching 2
MUPG 296	(1)	Acting for Voice
MUPG 297	(1)	Movement for Voice
MUPG 309	(1)	Advanced Diction
MUPG 353	(2)	Song Repertoire Class
MUPG 380	(2)	Oratorio Class
MUPG 453	(2)	Contemporary Repertoire for Voice

MUEN courses at the 400 or 500 level (maximum 4 credits)

Required Courses (25 credits)

Selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

9 credits of Diction

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Diction

9 credits

MUPG 209	(1)	Introduction to Lyric Diction
MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Complementary Courses (8 credits)

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

History/Literature

6 credits from:

MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

Electives (18 credits)

3 credits of non-Music Electives

15 credits of Free Electives (may not include courses with a MUEN prefix)

Prior to, or concurrent with registration in the corresponding Diction courses, the Voice Major must furnish evidence of having completed English Second Language courses, ITAL 205D1/ITAL 205D2, GERM 202, and FRSL 207, or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements above, or by extra university courses.

11.8.2.4 Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) (125 credits)

The Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) program requires 90 credits (plus 35 credits for the Freshman requirement for out-of-province students).

125 credits are selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

27 credits - Complementary Performance

16 credits - Required Courses (Theory, Musicianship, and Music History)

8 credits - Complementary Courses (Musicianship and Music History, Literature, or Performance Practice)

18 credits - Free Electives

3 credits - Non-Music Electives

Ensemble Requirements:

1. Students majoring in violin, viola, or cello must commence their assigned ensembles with four terms of string quartets.
2. Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (18 credits)

18 credits, select all the courses below:

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (27 credits)

Large Ensemble during the first four terms (2 credits x 4 semesters).

27 credits of complementary performance selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Assigned small ensemble: during every term of enrolment as a full-time or part-time student.

6 credits (1 credit per term) from:

MUEN 560	(1)	Chamber Music Ensemble
MUEN 580	(1)	Early Music Ensemble
MUEN 585	(1)	Sonata Masterclass
MUEN 589	(1)	Woodwind Ensembles
MUEN 598	(1)	Percussion Ensembles

9 credits from:

MUEN courses at the 400 or 500 level (maximum of 4 credits)

MUIN 269	(1)	Classical Concerto Exam
MUPG 224	(2)	Orchestral Excerpts Strings 1
MUPG 229	(1)	Traditional Drumming 1: Rudiments
MUPG 230	(2)	Orchestral Excerpts Woodwind 1
MUPG 235	(2)	Orchestral Excerpts Brass 1
MUPG 324	(2)	Orchestral Excerpts Strings 2
MUPG 325	(2)	Improvisation for String Players
MUPG 326	(2)	Introduction to String Pedagogy
MUPG 328	(1)	Introduction to Percussion Pedagogy
MUPG 329	(1)	Traditional Drumming 2: Hand Drumming
MUPG 330	(2)	Orchestral Excerpts Woodwind 2
MUPG 331	(2)	Introduction to Woodwind Pedagogy
MUPG 335	(2)	Orchestral Excerpts Brass 2
MUPG 336	(2)	Introduction to Brass Pedagogy
MUPG 424	(2)	Orchestral Excerpts Strings 3
MUPG 425	(2)	Extended Techniques - Strings
MUPG 429	(2)	Percussion Seminar
MUPG 430	(2)	Orchestral Excerpts Woodwind 3
MUPG 431	(2)	Extended Techniques - Woodwinds
MUPG 435	(2)	Extended Techniques - Brass
MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance
MUPG 475	(3)	Special Project in Performance

Required Courses (16 credits)

16 credits of required courses selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music

Complementary Courses (8 credits)**Musicianship**

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 355	(2)	Musicianship for Percussion

Music History, Literature, or Performance Practice

6 credits

(Courses with a MUHL or MUPP prefix)

Percussionists must include:

MUHL 392	(3)	Music since 1945

Non-Music Electives (3 credits)**Free Electives (18 credits)**

(May not include courses with a MUEN prefix.)

11.8.2.5 Bachelor of Music (B.Mus.) - Major Early Music Performance (Baroque Violin, Viola, Cello, Viola da Gamba, Flute, Recorder, Oboe, Organ, Harpsichord and Early Brass Instruments) (125 credits)

This program requires 90 credits (plus 35 credits for the Freshman requirement for out-of-province students).

125 credits selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

24 credits - Complementary Performance

22 credits - Required Courses (Theory, Musicianship and Music History, Literature, or Performance Practice)

5 credits - Complementary

3 credits - Non-Music Electives

18 credits - Free Electives

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (18 credits)

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (24 credits)

Large Ensemble - during every term of enrolment as a full-time or part-time student.

24 credits are selected as follows:

12 credits selected from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra

MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Assigned small ensemble - during every term of enrolment as a full-time or part-time student.

6 credits (1 credit x 6 semesters) of:

MUEN 580	(1)	Early Music Ensemble

6 credits from:

Baroque

MUEN prefix - maximum 4 credits

MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance
MUPG 475	(3)	Special Project in Performance

Harpsichord

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Organ

MUEN prefix - maximum 2 credits

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance
MUPG 475	(3)	Special Project in Performance

Required Courses (22 credits)

22 credits are selected as follows:

12 credits - Theory

4 credits - Musicianship

6 credits - Music History, Literature, or Performance Practice

Theory

12 credits

MUTH 250	(3)	Theory and Analysis 3

MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History, Literature, or Performance Practice

6 credits

MUHL 286	(3)	Critical Thinking About Music
MUPP 381	(3)	Topics in Performance Practice

Complementary Courses (5 credits)

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Music History, Literature, or Performance

3 credits from:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography

Non-Music Electives (3 credits)

Free Electives (18 credits)

(May not include courses with a MUEN prefix)

11.8.2.6 Bachelor of Music (B.Mus.) - Major Early Music Performance (Voice) (126 credits)

This program requires 91 credits (plus 35 credits for the Freshman requirement for out-of-province students).

126 credits selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

22 credits - Required Performance

12 credits - Complementary Performance

31 credits - Required Courses (Theory, Musicianship, History, Literature, or Performance Practice and Diction)

5 credits - Complementary Courses (Musicianship, Music History)

3 credits - Non-Music Electives

18 credits - Free Electives

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

23 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Performance (22 credits)

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 300	(2)	Voice Coaching 1
MUIN 301	(2)	Voice Coaching 2
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (12 credits)

Ensemble - during every term of enrolment as a full-time or part-time student.

12 credits are selected as follows:

12 credits selected from:

MUEN 496	(2)	Opera Studio
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

Required Courses (31 credits)

31 credits are selected as follows:

12 credits - Theory

4 credits - Musicianship

6 credits - Music History, Literature, or Performance Practice

9 credits - Diction

Theory

12 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History, Literature or Performance Practice

6 credits

MUHL 286	(3)	Critical Thinking About Music
MUPP 381	(3)	Topics in Performance Practice

Diction

9 credits

MUPG 209	(1)	Introduction to Lyric Diction
MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Complementary Courses (5 credits)**Musicianship**

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Music History

3 credits from:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography

Non-Music Electives* (3 credits)**Free Electives* (18 credits)**

(May not include courses with a MUEN prefix)

* Prior to, or concurrent with registration in the corresponding Diction courses, the Voice Major must furnish evidence of having completed English Second Language courses, ITAL 205D1/ITAL 205D, GERM 202, and FRSL 207, or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements above, or by extra university courses.

11.8.2.7 Bachelor of Music (B.Mus.) - Major Performance Jazz (Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice) (126 credits)

The Bachelor of Music (B.Mus.) - Major Jazz Performance (Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice) program requires 91 credits (plus 35 credits for the Freshman requirement for out-of-province students).

126 credits are selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

18 credits - Complementary Performance

30 credits - Required Courses (Jazz improvisation, Theory and History)

4 credits - Complementary Music

3 credits - Non-Music Electives

18 credits - Free Electives

Special Requirements:

1. Students majoring in Jazz Performance must achieve a minimum grade of B- in all Jazz courses and Practical Instruction/Exams, including Jazz Combo and Ensembles, excluding 100-level courses with the subject code of MUJZ.

2. Non-Quebec jazz students must take four credits of non-jazz Basic Ensemble in the prerequisite year.

Program Prerequisites - Freshman Program (35 credits)

35 credits selected as described below, in consultation with the Program Adviser:

25 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

25 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses listed below, will be exempt from them and may proceed to more advanced courses.

Incoming jazz guitarists and pianists are automatically exempt from MUJZ 170 and MUJZ 171.

First-year students who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Jazz concentration or equivalent, or students transferring from other universities or colleges, and have completed a course in the history of Jazz will be exempted from the first-year Jazz History Survey requirement (MUJZ 187).

Note: Jazz Combo MUEN 570 is taken in each term (1 credit + 1 credit)

MUEN 570	(1)	Jazz Combo
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 170	(1)	Jazz Keyboard Proficiency 1
MUJZ 171	(1)	Jazz Keyboard Proficiency 2
MUJZ 187	(3)	Jazz History Survey
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 123	(2)	Jazz Ear Training 1
MUSP 124	(2)	Jazz Ear Training 2

Required Performance (18 credits)

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 282	(0)	BMus Performance Examination 1
MUIN 380	(3)	BMus Practical Lessons 5
MUIN 381	(3)	BMus Practical Lessons 6
MUIN 382	(0)	BMus Performance Examination 2
MUIN 480	(3)	BMus Practical Lessons 7
MUIN 481	(3)	BMus Practical Lessons 8
MUIN 482	(0)	BMus Performance Examination 3

Complementary Performance (18 credits)

Large Ensemble – during every term of enrolment as a full-time student or part-time student.

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds

MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

6 credits, select MUEN 570 (1 credit x 6 semesters):

MUEN 570	(1)	Jazz Combo

Required Courses (30 credits)

Selected as follows:

12 credits of Jazz Improvisation

12 credits of Theory

6 credits of History

Jazz Improvisation

12 credits

MUJZ 223	(3)	Jazz Improvisation/Musicianship 1
MUJZ 224	(3)	Jazz Improvisation/Musicianship 2
MUJZ 423	(3)	Jazz Improvisation/Musicianship 3
MUJZ 424	(3)	Jazz Improvisation/Musicianship 4

Theory

12 credits

MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUJZ 340	(3)	Jazz Composition 1
MUJZ 341	(3)	Jazz Composition 2

History

6 credits

MUHL 286	(3)	Critical Thinking About Music
MUJZ 493	(3)	Jazz Performance Practice

Complementary Music (4 credits)

One of the following pairs:

Select MUJZ 440D1 and MUJZ 440D2 OR MUJZ 461D1 and MUJZ 461D2.

MUJZ 440D1	(2)	Advanced Jazz Composition
MUJZ 440D2	(2)	Advanced Jazz Composition
MUJZ 461D1	(2)	Advanced Jazz Arranging
MUJZ 461D2	(2)	Advanced Jazz Arranging

Non-Music Electives (3 credits)

Free Electives (18 credits)

(May not include courses with a MUEN prefix)

11.8.2.8 Minor Early Music Performance (18 credits)

The Minor in Early Music Performance offers an opportunity for B.Mus. students to learn the elements of early music performance practice, and to play an early music instrument or to sing early music.

Required Courses (3 credits)

MUIN 272	(0)	Performance Minor Examination 1
MUPP 381	(3)	Topics in Performance Practice

Complementary Courses (15 credits)

6 credits from the following:

MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 580	(1)	Early Music Ensemble
MUPD 560	(1)	Introduction to Research Methods in Music
MUPG 272D1*	(2)	Continuo
MUPG 272D2*	(2)	Continuo

* must be taken by Harpsichord students

3 credits from the following:

MUHL 366	(3)	The Era of the Fortepiano
MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 426	(3)	Topics in Early Music Analysis

6 credits from the following (for Voice students only):

MUIN 302	(1.5)	Early Music Minor Repertoire Coaching 1
MUIN 303	(1.5)	Early Music Minor Repertoire Coaching 2
MUIN 304	(1.5)	Early Music Minor Repertoire Coaching 3
MUIN 305	(1.5)	Early Music Minor Repertoire Coaching 4

OR

6 credits from the following (for Instrumental students only):

MUIN 270	(3)	Practical Lessons Performance Minor 1
MUIN 271	(3)	Practical Lessons Performance Minor 2
MUIN 273	(1.5)	Practical Lessons Performance Minor 3
MUIN 274	(1.5)	Practical Lessons Performance Minor 4
MUIN 275	(1.5)	Practical Lessons Performance Minor 5
MUIN 276	(1.5)	Practical Lessons Performance Minor 6
MUIN 302	(1.5)	Early Music Minor Repertoire Coaching 1
MUIN 303	(1.5)	Early Music Minor Repertoire Coaching 2
MUIN 304	(1.5)	Early Music Minor Repertoire Coaching 3
MUIN 305	(1.5)	Early Music Minor Repertoire Coaching 4

11.8.2.9 Licentiate in Music (L.Mus.) - Major Performance Piano (93 credits)

The Licentiate in Music (L.Mus.) Major Performance Piano is a 93-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (52 credits)

MUIN 250	(8)	L.Mus. Practical Instruction 1
MUIN 251	(8)	L.Mus. Practical Instruction 2
MUIN 252	(0)	L.Mus. Performance 1 Examination
MUIN 333	(0)	Piano Techniques 2
MUIN 350	(8)	L.Mus. Practical Instruction 3
MUIN 351	(8)	L.Mus. Practical Instruction 4
MUIN 352	(0)	L.Mus. Performance 2 Examination
MUIN 369	(0)	Concerto
MUIN 433	(0)	Piano Techniques 3
MUIN 450	(8)	L.Mus. Practical Instruction 5
MUIN 451	(8)	L.Mus. Practical Instruction 6
MUIN 452	(0)	L.Mus. Performance 3 Examination
MUPG 541	(2)	Senior Piano Seminar 1
MUPG 542	(2)	Senior Piano Seminar 2

Complementary Performance (14 credits)

Large Ensemble – during the first four terms (2 credits x 4 semesters).

14 credits selected as follows:

8 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica

MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

6 credits from:

MUEN 556	(1)	Introduction to Collaborative Piano 1
MUEN 557	(1)	Introduction to Collaborative Piano 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 581	(1)	Piano Ensemble Seminar 1
MUEN 582	(1)	Piano Ensemble Seminar 2
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass

Complementary Musicianship (2 credits)

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

11.8.2.10 Licentiate in Music (L.Mus.) - Major Performance (All Instruments except Piano, Voice and Jazz) (93 credits)

The Licentiate in Music (L.Mus.) Major Performance in All Instruments except Piano, Voice, and Jazz is a 93-credit program.

Ensemble Requirements:

1. Students majoring in violin, viola, or cello must commence their assigned ensembles with four terms of string quartets.
2. Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Students must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

48 credits selected as follows:

MUIN 250	(8)	L.Mus. Practical Instruction 1
MUIN 251	(8)	L.Mus. Practical Instruction 2
MUIN 252	(0)	L.Mus. Performance 1 Examination
MUIN 350	(8)	L.Mus. Practical Instruction 3
MUIN 351	(8)	L.Mus. Practical Instruction 4
MUIN 352	(0)	L.Mus. Performance 2 Examination
MUIN 450	(8)	L.Mus. Practical Instruction 5
MUIN 451	(8)	L.Mus. Practical Instruction 6
MUIN 452	(0)	L.Mus. Performance 3 Examination

Complementary Performance (18 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Assigned Small Ensemble - during every term of enrolment as a full-time or part-time student.

6 credits from:

MUEN 560	(1)	Chamber Music Ensemble
MUEN 562	(1)	Guitar Ensemble
MUEN 580	(1)	Early Music Ensemble
MUEN 585	(1)	Sonata Masterclass
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 598	(1)	Percussion Ensembles

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

Complementary Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

11.8.2.11 Licentiate in Music (L.Mus.) - Major Performance Voice (105 credits)

The Licentiate in Music (L.Mus.) Major Performance Voice is a 105-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams, ensembles, and voice coaching.
2. Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

MUIN 250	(8)	L.Mus. Practical Instruction 1
MUIN 251	(8)	L.Mus. Practical Instruction 2
MUIN 252	(0)	L.Mus. Performance 1 Examination
MUIN 350	(8)	L.Mus. Practical Instruction 3
MUIN 351	(8)	L.Mus. Practical Instruction 4
MUIN 352	(0)	L.Mus. Performance 2 Examination
MUIN 450	(8)	L.Mus. Practical Instruction 5
MUIN 451	(8)	L.Mus. Practical Instruction 6
MUIN 452	(0)	L.Mus. Performance 3 Examination

Complementary Performance (21 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

12 credits from:

MUEN 496	(2)	Opera Studio
MUEN 554	(2)	Opera Excerpts
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

9 credits from:

MUEN courses at the 400 or 500 level (maximum 4 credits).

MUIN 300	(2)	Voice Coaching 1
MUIN 301	(2)	Voice Coaching 2
MUPG 296	(1)	Acting for Voice
MUPG 297	(1)	Movement for Voice
MUPG 309	(1)	Advanced Diction
MUPG 353	(2)	Song Repertoire Class
MUPG 380	(2)	Oratorio Class
MUPG 453	(2)	Contemporary Repertoire for Voice

Complementary Musicianship (2 credits)

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Required Courses (34 credits)

Diction (9 credits)

MUPG 209	(1)	Introduction to Lyric Diction
MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Theory (9 credits)

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship (10 credits)

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History (6 credits)

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

11.8.2.12 Licentiate in Music (L.Mus.) - Major Performance Jazz (100 credits)

The Licentiate in Music (L.Mus.) Major Performance Jazz is a 100-credit program with options in various instruments.

Special Requirements:

1. Continuation in the program requires that a grade of A- be maintained in practical instruction/exams and ensembles.
2. Candidates must take the L.Mus. Jazz Performance 1 Examination at the end of their first year of study and the L.Mus. Jazz Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

All of the following courses:

MUIN 250	(8)	L.Mus. Practical Instruction 1

MUIN 251	(8)	L.Mus. Practical Instruction 2
MUIN 252	(0)	L.Mus. Performance 1 Examination
MUIN 350	(8)	L.Mus. Practical Instruction 3
MUIN 351	(8)	L.Mus. Practical Instruction 4
MUIN 352	(0)	L.Mus. Performance 2 Examination
MUIN 450	(8)	L.Mus. Practical Instruction 5
MUIN 451	(8)	L.Mus. Practical Instruction 6
MUIN 452	(0)	L.Mus. Performance 3 Examination

Complementary Performance (18 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

6 credits, select Jazz Combo Training - during every term of enrolment as a full-time or part-time student. MUEN 570 Jazz Combo (1 credit x 6 semesters).

MUEN 570	(1)	Jazz Combo

Required Courses (30 credits)

30 credits selected as follows:

12 credits of Theory

12 credits of Improvisation/Musicianship

6 credits of History

Theory

MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUJZ 340	(3)	Jazz Composition 1
MUJZ 341	(3)	Jazz Composition 2

Improvisation/Musicianship

MUJZ 223	(3)	Jazz Improvisation/Musicianship 1
MUJZ 224	(3)	Jazz Improvisation/Musicianship 2

MUJZ 423	(3)	Jazz Improvisation/Musicianship 3
MUJZ 424	(3)	Jazz Improvisation/Musicianship 4

History

MUJZ 187	(3)	Jazz History Survey
MUJZ 493	(3)	Jazz Performance Practice

Complementary Courses

4 credits from the following:

Note: Students select EITHER MUJZ 440D1 and MUJZ 440D2 OR MUJZ 461D1 and MUJZ 461D2.

MUJZ 440D1	(2)	Advanced Jazz Composition
MUJZ 440D2	(2)	Advanced Jazz Composition
MUJZ 461D1	(2)	Advanced Jazz Arranging
MUJZ 461D2	(2)	Advanced Jazz Arranging

11.8.2.13 Artist Diploma - Major Performance Voice (65 credits)

The Artist Diploma Major Performance Voice is a 65-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams, ensembles, and voice coaching.
2. Candidates who have not taken the courses in Italian, French, English, and German diction as specified in the L.Mus. program must add them to the above requirements.
3. A leading operatic or oratorio role may substitute for one recital.

Note: Courses taken as credit toward a B.Mus. or L.Mus. may not be applied to the Artist Diploma requirements except for the required courses in Theory, Musicianship, and Music History or Performance Practice.

Required Performance (41 credits)

MUIN 460	(8)	Artist Diploma Practical Instruction 1
MUIN 461	(8)	Artist Diploma Practical Instruction 2
MUIN 462	(0)	Artist Diploma Recital 1
MUIN 469	(1)	Artist Diploma Concerto 1
MUIN 560	(8)	Artist Diploma Practical Instruction 3
MUIN 561	(8)	Artist Diploma Practical Instruction 4
MUIN 562	(0)	Artist Diploma Recital 2
MUIN 569	(1)	Artist Diploma Concerto 2
MUIN 600	(2)	Vocal Repertoire Coaching 1
MUIN 601	(2)	Vocal Repertoire Coaching 2
MUPG 590	(3)	Vocal Styles and Conventions

Complementary Performance (8 credits)

Large Ensemble Training - during every term of enrolment as a full-time or part-time student.

8 credits from:

MUEN 496	(2)	Opera Studio
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica

MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

Required Courses (8 credits)**Theory**

MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 241	(2)	Musicianship Training 4

Complementary Courses (8 credits)

2 credits from Musicianship;

6 credits from Music History, Literature, or Performance Practice

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Music History, Literature, or Performance

6 credits selected from:

MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

11.8.2.14 Artist Diploma - Major Performance (All Instruments) (62 credits)

The Artist Diploma is a 62-credit program offered in all areas of musical performance.

Ensemble Requirement:

Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Guitarists may present a third recital, which may be counted as a substitute for 4 credits of ensemble. Organists may present a third recital or Concerto 1 and 2, which may be counted as a substitute for 4 credits of ensemble. For concerto requirements, refer to the "Postgraduate Study" section.

Note: Courses taken as credit toward a B.Mus. or L.Mus. may not be applied to the Artist Diploma requirements except for the required courses in Theory, Musicianship, and Music History or Performance Practice.

Required Performance (34 credits)

MUIN 460	(8)	Artist Diploma Practical Instruction 1
MUIN 461	(8)	Artist Diploma Practical Instruction 2
MUIN 462	(0)	Artist Diploma Recital 1
MUIN 469	(1)	Artist Diploma Concerto 1
MUIN 560	(8)	Artist Diploma Practical Instruction 3
MUIN 561	(8)	Artist Diploma Practical Instruction 4
MUIN 562	(0)	Artist Diploma Recital 2
MUIN 569	(1)	Artist Diploma Concerto 2

Complementary Performance – Orchestral Instruments (12 credits)

Large Ensemble Training - during every term of enrolment as a full-time or part-time student.

8 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	Orchestral Ensembles

Assigned Small Ensemble – during every term of enrolment as a full-time or part-time student.

4 credits from:

MUEN 560	(1)	Chamber Music Ensemble
MUEN 562	(1)	Guitar Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 585	(1)	Sonata Masterclass
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 598	(1)	Percussion Ensembles

Non-Orchestral Instruments (8 credits)

Complementary ensembles, to be approved by the Department (minimum of two 1-credit ensembles per term for four terms).

Required Courses (8 credits)

Theory

MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 241	(2)	Musicianship Training 4

Complementary Courses (8 credits)**Musicianship**

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Music History, Literature, or Performance Practice

6 credits selected from courses with a MUHL or MUPP prefix.

Non-Orchestral Instruments: Music Electives (4 credits)**11.8.2.15 Special Prerequisite Courses for M.Mus. in Performance****Master of Music (M.Mus.); Performance: Early Music (Thesis)**

MUPD 560	(1)	Intro to Research Methods in Music

3 credits from the following:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUPP 381	(3)	Topics in Performance Practice
MUTH 426	(3)	Topics in Early Music Analysis

Fortepiano students:

MUHL 366	(3)	The Era of the Fortepiano

Harpsichord students; 6 credits:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Organ/Lute students:

Master of Music (M.Mus.); Performance: Early Music (Thesis)

MUPG 272D1 (2) Continuo

MUPG 272D2 (2) Continuo

Voice students; 6 credits of the following:

MUPG 210 (2) Italian Diction (*or equivalent*)

MUPG 211 (2) French Diction (*or equivalent*)

MUPG 212 (2) English Diction (*or equivalent*)

MUPG 213 (2) German Diction (*or equivalent*)

Master of Music (M.Mus.); Performance: Orchestral Instruments and Guitar (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

Master of Music (M.Mus.); Performance: Collaborative Piano (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

4 credits of:

MUPG 210 (2) Italian Diction

MUPG 211 (2) French Diction

MUPG 212 (2) English Diction

MUPG 213 (2) German Diction

6 credits of:

MUHL 372 (3) Solo Song Outside Germany and Austria

MUHL 377 (3) Baroque Opera

MUHL 387 (3) Opera from Mozart to Puccini

MUHL 388 (3) Opera After 1900

MUHL 390 (3) The German Lied

Master of Music (M.Mus.); Performance: Piano (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

Master of Music (M.Mus.); Performance: Opera and Voice (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

MUPG 210 (2) Italian Diction

MUPG 211 (2) French Diction

MUPG 212 (2) English Diction

MUPG 213 (2) German Diction

One of:

MUHL 372 (3) Solo Song Outside Germany and Austria

MUHL 377 (3) Baroque Opera

MUHL 387 (3) Opera from Mozart to Puccini

MUHL 388 (3) Opera After 1900

MUHL 390 (3) The German Lied

Master of Music (M.Mus.); Performance: Organ and Church Music (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

MUPG 272D1 (2) Continuo

MUPG 272D2 (2) Continuo

Master of Music (M.Mus.); Performance: Conducting (Thesis)

MUPD 560 (1) Intro to Research Methods in Music

MUSP 170 (1) Musicianship (Keyboard) 1

MUSP 171 (1) Musicianship (Keyboard) 2

Choral Conducting:

MUCT 235 (3) Vocal Techniques

MUCO 261 (2) Orchestration 1

MUHL 397 (3) Choral Literature after 1750

Orchestral and Wind Conducting:

4 credits of:

MUCO 261 (2) Orchestration 1

MUCO 360 (2) Orchestration 2

MUCO 460 (2) Orchestration 3

and:

MUHL 389 (3) Orchestral Literature

or MUHL 398 (3) Wind Ensemble Literature after 1750

Master of Music (M.Mus.); Performance: Jazz Performance (Thesis)

MUHL 393 (3) History of Jazz

MUJZ 440D1 (2) Advanced Jazz Composition

MUJZ 440D2 (2) Advanced Jazz Composition

MUJZ 461D1 (2) Advanced Jazz Arranging

MUJZ 461D2 (2) Advanced Jazz Arranging

MUJZ 493 (3) Jazz Performance Practice

11.8.3 B.Mus./B.Ed. Bachelor of Music and Bachelor of Education Concurrent Program

The Bachelor of Education in Music is an integrated four-year 120-/121-credit program of initial teacher training that leads to certification as a teacher in the Province of Quebec. When offered concurrently with the Bachelor of Music (Major in Music Education), the program offers students the opportunity to obtain a Bachelor of Education degree and a Bachelor of Music degree after the completion of 137 credits, normally five years (170 credits or six years for out-of-province students). The Concurrent program combines academic studies in music, professional studies, and field experience. The two degrees are awarded during the same convocation period.

The components of the 137-credit Bachelor of Education in Music/Bachelor of Music (Music Education) are as follows:

Bachelor of Education in Music/Bachelor of Music (Music Education)

55 professional credits

70 Music academic credits

12 elective credits (which must include 3 credits of non-Music electives)

Students in the Concurrent B.Mus./B.Ed. who receive an F or J in any Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the Concurrent program; however, they may apply to transfer to the B.Mus. Faculty program.

11.8.3.1 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)

The Bachelor of Music (B.Mus.) - Major Music Education, when offered concurrently with the The Bachelor of Education - Major Music Elementary and Secondary, provides students with the opportunity to obtain a Bachelor of Music degree and a Bachelor of Education degree after the completion of 137 credits, normally five years (170 credits or six years for out-of-province students*). The Concurrent program combines academic studies in music, professional studies, and field experience. The two degrees are awarded during the same convocation period.

* Out-of-province students or those who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program.

To be admitted to the Concurrent program, students must satisfy the regular admission requirements of the Schulich School of Music and Faculty of Education. Normally, students will be admitted to both components of the Concurrent program simultaneously. Applicants who already hold a Bachelor of Music degree should apply to the Faculty of Education. Students who have completed 30 or more credits in a Bachelor of Music program, exclusive of the Freshman year for out-of-province students, should apply for admission to the Concurrent program.

All applications for the Concurrent program are to be made to the Admissions Office of the Schulich School of Music.

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of the prospective music educator as a musician. This is achieved not only through core music history, theory, musicianship, and performance courses, but also through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musician as an educator. This is achieved through courses in educational foundations, music pedagogy, and pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

Students who decide to complete only a Bachelor of Music may transfer at any time into the Bachelor of Music, Faculty Program. Students who wish to complete only the Bachelor of Education Music program have the option of doing so after the successful completion of the first two years of the Concurrent Program and MUIN 283 "BMus Concentration Final Examination" or equivalent. They would be required to complete 61 music credits, 6 elective credits, and 55 education credits from the program given below.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary are as follows:

55 professional Education credits

70 Music academic credits

9 Free elective credits

3 non-Music elective credits

Program Prerequisites - Freshman Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of non-Music electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 136	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Music Components (49 credits)

49 credits of required Music courses distributed as follows:

25 credits of Music Education

11 credits of Theory
 4 credits of Musicianship
 3 credits of Music History
 6 credits of Performance

Music Education

25 credits:

MUCT 235	(3)	Vocal Techniques
MUGT 215	(1)	Basic Conducting Techniques
MUGT 354	(3)	Music for Children
MUGT 358	(3)	General Music for Adults and Teenagers
MUGT 401	(3)	Issues in Music Education
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

Theory

11 credits:

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 461	(2)	Choral and Keyboard Arranging

Musicianship

4 credits:

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits:

MUHL 286	(3)	Critical Thinking About Music

Performance

6 credits:

MUIN 280	(3)	BMus Practical Lessons 3
MUIN 281	(3)	BMus Practical Lessons 4
MUIN 283	(0)	BMus Concentration Final Examination

Complementary Music Components (21 credits)

21 credits of complementary Music courses distributed as follows:

9 credits of Music Education
 2 credits of Musicianship

6 credits of Music History

4 credits of Performance

Music Education

3 credits, one of:

MUIT 201	(3)	String Techniques
MUIT 250	(3)	Guitar Techniques

3 credits, one of:

MUCT 315	(3)	Choral Conducting 1
MUIT 315	(3)	Instrumental Conducting

3 credits, select EDEA 362 or any course with a prefix of MUIT or MUGT.

EDEA 362	(3)	Movement, Music and Communication

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Music History

6 credits of courses with a MUHL or a MUPP prefix.

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Winds
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 597	(2)	Orchestral Ensembles

Electives (12 credits)

9 credits of free electives

3 credits of non-Music electives

Required Education Courses (45 credits)

* Note: Students take either EDEE 355 or EDPE 304, but not both.

EDEA 206	(1)	1st Year Professional Seminar
EDEA 407	(3)	Final Year Professional Seminar Music
EDEA 442	(3)	Methods in Music Education 1
EDEA 472	(3)	Methods in Music Education 2
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEE 355*	(3)	Classroom-based Evaluation
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 205	(2)	First Field Experience (Music)
EDFE 208	(3)	Second Field Experience (Music)
EDFE 308	(8)	Third Field Experience (Music)
EDFE 407	(7)	Fourth Field Experience (Music)
EDPE 300	(3)	Educational Psychology
EDPE 304*	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students

Complementary Education Courses (10 credits)

10 credits distributed as follows:

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

1 credit from:

EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 254	(1)	Second Professional Seminar (Secondary)

3 credits from:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Educational Media 1
MUGT 301	(3)	Technology and Media for Music Education

11.8.4 Management Minor Programs

The Desautels Faculty of Management offers a Minor in Management and a Minor in Marketing to B.Mus. undergraduates that allow Music students to include courses in their undergraduate program that will help prepare them for a career in music. All minors for non-Management students require the completion of an application; the form may be found at www.mcgill.ca/desautels/programs/bcom/prospectivestudents/minors.

Detailed information on these minors can be found on the Desautels Faculty of Management website, www.mcgill.ca/desautels/programs/bcom/prospectivestudents/minors, and under *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 10.8.7: Minors for Non-Management Students*.

11.8.4.1 Minor Management (For Non-Management Students) (18 credits)

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Finance 1

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Marketing Management 1
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

11.8.4.2 Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will

be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

11.9 Practical Subjects

All returning students must submit a green Lesson Assignment Card and/or orange Voice Coaching Assignment Card to the Performance Department by April 15 of each year they wish to register for lessons.

Students taking practical instruction, but who are registered for less than 12 credits per term, will be charged \$785 in addition to the practical instruction fee (\$500) and per-credit fee for their instrument lessons for each term in which they are, or become, part-time students (Artist Diploma students: \$1,175 per term). This is the same fee applied to students who have used up their quota of lessons at the per-credit fee.

11.9.1 Practical Assignment and Lessons

11.9.1.1 Registration/Withdrawal

Registration for practical instruction and examinations (MUIN courses) is **not available** on Minerva. Students are reminded to submit a Lesson Assignment Card to the Department of Performance by the specified deadlines. Practical Instruction will then be added onto students' records.

The deadline for withdrawing from practical lessons is the end of the second week of classes in any term.

11.9.1.2 Assignment of Teachers

The assignment of students to teachers for private lessons is the responsibility of the Chair of the Department of Performance. Student requests for specific teachers will be taken into consideration where possible.

It is understood that returning students will study with the same teacher unless prior arrangements have been made with the Chair of the Department in consultation with the teachers concerned. **However, those students who do not return the Lesson Assignment Card (including Voice Coaching) by the specified deadline cannot be guaranteed the teacher of their choice, and they will be assessed a late fee of \$50.** Teacher assignments will be made soon

after the period of enrolment and confirmed during the first week of classes. Following this assignment, it is the students' responsibility to contact their teachers and arrange lesson times.

Individual lessons missed as a consequence of the instructor's absence will be made up at the mutual convenience of the instructor and student. Lessons missed as a result of the student's absence will be made up only if notice of cancellation has been given 48 hours in advance, or if a doctor's certificate is produced and prior notice of the cancellation is given.



Note: Students who are taking practical lessons in fulfilment of the requirements for any degree are required to study with teachers on the staff of the Schulich School of Music.

11.9.1.3 Credit Weights for Practical Study

Credit Weights

B.Mus. Concentration	3 credits per term
B.Mus. Major (Performance programs)	3 credits per term
L.Mus.	8 credits per term
Artist Diploma	8 credits per term
Elective Lessons	2 credits per term

11.9.2 Examinations and Goals in Practical Subjects

Different levels of achievement are required of students depending upon the program of study for which they are registered. These levels are defined in part by the difficulty of material and length of program required at the various examinations, and in part by the examiners' assessment of how well the student plays this material.

In general, there are five categories of practical study: Concentration Study, Major Study, Licentiate Study, Postgraduate Study, and Elective Study.

11.9.2.1 Concentration Study

A student in the Faculty program or specializing in Composition, Music Education, Music History, Music Technology, or Theory is obliged to present one examination in order to fulfil the practical requirement of these programs: the Concentration Final Examination (MUIN 283).

The sequence would normally be:

Concentration Study Sequence

MUIN 180	BMus Practical Lessons 1
MUIN 181	BMus Practical Lessons 2
MUIN 280	BMus Practical Lessons 3
MUIN 281	BMus Practical Lessons 4
MUIN 283	BMus Concentration Final Examination

BMus Concentration Final Examination (MUIN 283)

Purpose: To determine that the student is sufficiently accomplished to qualify for the degree of Bachelor of Music. In the event that the student is inadequately prepared, the panel may recommend to the department in which the student is registered that: a) the student be asked to withdraw from the program; or, b) the student be permitted to redo the examination.

Panel: A minimum of two staff members (not including the teacher), one of whom must be from the area. The panel is appointed by the Chair of the Department of Performance. At the discretion of the Departmental Chair, the teacher may be included on panels of three or more examiners.

Distribution of Marks: For students registered in practical lessons through the Schulich School of Music, the teacher submits a term mark which is included as 50% of the final mark. In instances where the student's teacher is on the panel, the teacher's global evaluation will nevertheless be equal to 50% of the final mark. This grade will also be entered in the student's current or most recent term of practical instruction. When a student is not registered for lessons through the Schulich School of Music, the final mark will be the average of the marks submitted by the examination panel and will also be entered in the most recent term of practical instruction.

11.9.2.2 Major Study

A student majoring in Performance (B.Mus. or L.Mus.) must show talent for this field before being admitted to the program. The practical requirement for these programs comprises examinations and recitals as specified in the programs.

11.9.2.2.1 B.Mus. Major in Performance, Major in Early Music Performance, and Major in Jazz Performance

The sequence would normally be:

MUIN 180	BMus Practical Lessons 1
MUIN 181	BMus Practical Lessons 2
MUIN 280	BMus Practical Lessons 3
MUIN 281	BMus Practical Lessons 4
MUIN 282	BMus Performance Examination 1
MUIN 380	BMus Practical Lessons 5
MUIN 333	Piano Techniques 2 (pianists only)
MUIN 381	BMus Practical Lessons 6
MUIN 382	BMus Performance Examination 2
MUIN 480	BMus Practical Lessons 7
MUIN 433	Piano Techniques 3 (pianists only)
MUIN 481	BMus Practical Lessons 8
MUIN 482	BMus Performance Examination 3
MUIN 369	Concerto (mandatory test for pianists)

BMus Performance Examination 1 (MUIN 282)

Purpose: To assess the student's progress in the practical area and determine whether or not the student may continue in the program. The panel may recommend to the Department that the student be: a) asked to withdraw from the program; b) permitted to continue to the BMus Performance Examination 2.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The teacher submits a term mark, which is included as 50% of the final mark. In instances where the student's teacher is on the panel, the teacher's global evaluation will nevertheless be equal to 50% of the final mark. This grade will also be entered in the student's current or most recent term of practical instruction.

BMus Performance Examination 2 (MUIN 382)

Purpose: To assess the student's ability to perform a program of sufficient length and suitable repertoire as specified in the requirements for each instrument.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Each member of the panel submits a mark for the examination, with the final mark being the average. This grade will also be entered in the student's current or most recent term of practical instruction.

BMus Performance Examination 3 (MUIN 482)

Purpose: All recitals are to be performed in public before a jury and are intended to demonstrate technical mastery of their instrument/voice as well as an understanding of different musical styles appropriate to their level of study.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Each member of the panel submits a mark for the examination, with the final mark being the average. This grade will also be entered in the student's current or most recent term of practical instruction.

11.9.2.3 Licentiate Study

Students must show talent for this field before being admitted to the program. Grades of A- in all practical requirements are mandatory for continuation in the program.

11.9.2.3.1 L.Mus. Performance

The sequence would normally be:

MUIN 250	L.Mus. Practical Instruction 1
MUIN 251	L.Mus. Practical Instruction 2
MUIN 252	L.Mus. Performance 1 Examination

MUIN 350	L.Mus. Practical Instruction 3
MUIN 333	Piano Techniques 2 (pianists only)
MUIN 351	L.Mus. Practical Instruction 4
MUIN 352	L.Mus. Performance 2 Examination

MUIN 450	L.Mus. Practical Instruction 5
MUIN 433	Piano Techniques 3 (pianists only)
MUIN 451	L.Mus. Practical Instruction 6
MUIN 452	L.Mus. Performance 3 Examination

MUIN 369	Concerto (mandatory test for pianists)

L.Mus. Performance 1 Examination (MUIN 252)

Purpose: To assess the student's progress in the practical area and determine whether or not the student may continue in the program. The panel may recommend to the Department that the student be: a) asked to withdraw from the program; or b) permitted to continue to the L.Mus. Performance 2 Exam.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The teacher submits a term mark, which is included as 50% of the final mark. In instances where the student's teacher is on the panel, the teacher's global evaluation will nevertheless be equal to 50% of the final mark. This grade will also be entered in the student's current or most recent term of practical instruction.

L.Mus. Performance 2 Examination (MUIN 352)

Purpose: The recital is a public presentation, before a jury, intended to demonstrate competence in public solo performance. Non-keyboard performers and singers must use appropriate accompaniment.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Each member of the panel submits a mark for the examination, with the final mark being the average. This grade will also be entered in the student's current or most recent term of practical instruction.

L.Mus. Performance 3 Examination (MUIN 452)

Purpose: All recitals are to be performed in public before a jury and are intended to demonstrate technical mastery of their instrument/voice as well as an understanding of different musical styles appropriate to their level of study.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Each member of the panel submits a mark for the examination, with the final mark being the average. This grade will also be entered in the student's current or most recent term of practical instruction.

11.9.2.4 Postgraduate Study

Artist Diploma candidates must present a number of public recitals and fulfil various special performance requirements (concertos, chamber music, orchestral passages, etc.). Grades of A- in all practical requirements are mandatory for continuation in the program.

M.Mus. candidates should consult *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Graduate > Academic Programs* for requirements of their program (available at www.mcgill.ca/study).

Candidates for the **Graduate Diploma in Professional Performance** should consult *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Graduate > Academic Programs > : Graduate Diploma in Professional Performance (30 credits)* for requirements of their program (available at www.mcgill.ca/study).

11.9.2.4.1 Artist Diploma

The sequence would normally be:

MUIN 460	Artist Diploma Practical Instruction 1
MUIN 461	Artist Diploma Practical Instruction 2
MUIN 462	Artist Diploma Recital 1
MUIN 560	Artist Diploma Practical Instruction 3
MUIN 561	Artist Diploma Practical Instruction 4
MUIN 562	Artist Diploma Recital 2
MUIN 563	Artist Diploma Recital 3 (guitar and organ only)

In addition, the Artist Diploma program in orchestral instruments, piano, and voice requires the candidate to present two concertos:

MUIN 469	Artist Diploma Concerto 1
MUIN 569	Artist Diploma Concerto 2

Applications for Artist Diploma Concerto hearings must be submitted to the Department of Performance Office five (5) weeks prior to the proposed date. The concerto examinations may be planned for any time during the academic session subject to the availability of examiners and facilities.

Artist Diploma Recital 1 (MUIN 462)

Purpose: Recital programs are intended to demonstrate that the student is qualified to engage in professional performance activities, and has attained the high level of performing ability required for the Artist Diploma.

Panel: The panel consists of the Chair of the Department of Performance or delegate, as well as two staff members from the area concerned (in Voice recitals, one voice teacher plus one staff member from another area).

Distribution of Marks: Examiners judge the recital independently and submit their evaluation without consulting the other examiners. All of the examiners must judge the recital to be satisfactory for the candidate to pass. This grade will also be entered in the student's current or most recent term of practical instruction.

Artist Diploma Recital 2 (MUIN 562)

Purpose: Recital programs are intended to demonstrate that the student is qualified to engage in professional performance activities, and has attained the high level of performing ability required for the Artist Diploma.

Panel: The panel consists of the Chair of the Department of Performance or delegate, as well as two staff members from the area concerned (in Voice recitals, one voice teacher plus one staff member from another area).

Distribution of Marks: Examiners judge the recital independently and submit their evaluation without consulting the other examiners. All of the examiners must judge the recital to be satisfactory for the candidate to pass. This grade will also be entered in the student's current or most recent term of practical instruction.

Artist Diploma Recital 3 (MUIN 563) (guitar and organ only)

Purpose: Recital programs are intended to demonstrate that the student is qualified to engage in professional performance activities, and has attained the high level of performing ability required for the Artist Diploma.

Panel: The panel consists of the Chair of the Department of Performance or delegate, as well as two staff members from the area concerned.

Distribution of Marks: Examiners judge the recital independently and submit their evaluation without consulting the other examiners. All of the examiners must judge the recital to be satisfactory for the candidate to pass.

Artist Diploma Concerto 1 (MUIN 469)

Purpose: The Artist Diploma program in orchestral instruments, piano, and voice requires the candidate to present concertos which are normally examined only by a jury. The concerto examinations may be planned for any time during the academic session subject to the availability of examiners and facilities.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Examiners judge the concerto independently and submit their evaluation without consulting the other examiners. All the examiners must judge the concerto to be satisfactory for the candidate to pass.

Artist Diploma Concerto 2 (MUIN 569)

Purpose: The Artist Diploma program in orchestral instruments, piano, and voice requires the candidate to present concertos which are normally examined only by a jury. The concerto examinations may be planned for any time during the academic session subject to the availability of examiners and facilities.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: Examiners judge the concerto independently and submit their evaluation without consulting the other examiners. All the examiners must judge the concerto to be satisfactory for the candidate to pass.

11.9.2.5 Elective Study

Students may elect to pursue further practical study in addition to their curricular requirements. The student is not expected to follow a specific program. Additional fees apply.

11.10 Practical Examinations

Details of specific examination requirements for each area (Brass, Early Music, Guitar, Harp, Jazz, Organ, Percussion, Piano, Strings, Voice, Woodwinds) may be obtained from the Department of Performance Office.

11.10.1 Application for Examination

Examinations and recitals must be presented in one of the examination periods. When a student and his/her teacher agree to present a required practical examination, **the student must make an application by the deadline specified below**. Permission to withdraw from a practical examination will normally be granted only in the case of illness. A medical certificate must be submitted to the Department of Performance Office within seven days after the withdrawal request has been received. Withdrawal from a practical examination on other than medical grounds must be authorized by the Chair of the Department of Performance.

Application for the above examinations must be made on the appropriate form available at the Performance Office. Applicants must obtain their teacher's approval on this form and submit it according to the following schedule.

Examination Period	Application Deadline*	Withdrawal Deadlines
September 7–11, 2013**	June 1***	August 1
Specific dates for the Fall Examination Period are available at www.mcgill.ca/importantdates	October 5	November 15
Specific dates for the Winter Examination Period are available at www.mcgill.ca/importantdates	February 3	March 3

* All students must apply by this deadline. Applications may be withdrawn without penalty any time up to the withdrawal deadline given above.

** The September examination period is available only for Summer graduands. No supplemental examinations will be given at this time.

*** It is recommended that students planning to take an examination in September submit the program for approval before the end of May; otherwise, the program may not be seen by the Area Committee until September.

Applications received after these deadlines will only be accepted with special permission from the Chair of the Department of Performance, and on payment of a \$50 late application fee.

11.10.2 Examination Marking

Normally, the final mark for any practical examination is the average of all the marks submitted by the individual examiners. In addition, however, at least half of the examiners on the panel must pass the student in order to continue to the next level of examination. (N.B.: the passing grade in the L.Mus. and Artist Diploma programs is A-; in the Major Performance programs, it is B-.) In instances where the average mark is a passing grade but a majority of the panel has failed the student, the final mark will be the letter grade immediately below the required passing grade.

12 Faculty of Religious Studies

12.1 About the Faculty of Religious Studies

The Faculty of Religious Studies has a long and distinguished history at McGill University and offers programs for those seeking to pursue the academic study of religion at both the undergraduate and graduate level. The Faculty recognizes the crucial role played by religion throughout history, as well as in contemporary society, and focuses on the study and analysis of the world's religions as phenomena of human society. The Faculty takes a multidisciplinary approach to religious scholarship, incorporating a wide range of perspectives and methods.

The programs of study explore the many cultural, historical, and political issues related to both Eastern and Western religions and to religion in comparative perspective. The Faculty has four major teaching areas: (1) Asian Religions, (2) Biblical Studies, (3) Christian Thought and History, and (4) Religion and Culture. Currently, the Faculty of Religious Studies offers or contributes to six degrees – B.A., B.Th., and M.Div. (in affiliation with the Montreal School of Theology), as well as the graduate degrees S.T.M., M.A., and Ph.D. The B.A. Honours, Major, and Minor programs in Religious Studies are offered in cooperation with the Faculty of Arts.

Students in the Faculty develop expertise in one or more of the areas of Religious Studies at the undergraduate and graduate level. In the B.Th./M.Div. program, students prepare for the ordained ministry and for other professional careers in pastoral settings such as hospitals and schools.

The Colleges affiliated with the Faculty are the Montreal Diocesan Theological College of the Anglican Church of Canada; the Presbyterian College, Montreal; and the United Theological College of the United Church of Canada. They are all located close to the University's Downtown campus.

The Faculty of Religious Studies is also the home of McGill's Centre for Research on Religion/Centre de Recherche sur la Religion. CREOR coordinates and supports research on the main religions of the world, their differences and their common grounds, and how they contribute to a better understanding of past and present-day culture, ethics, and politics.

12.2 History of the Faculty

12.2.1 The Faculty and the Colleges

During the 19th century, several Theological Colleges in Montreal became affiliated with McGill. In 1912, they formed a Joint Board for the academic study of Theology, leaving each denominational College to provide its own professional training for Christian ministry. This relationship between the Colleges and the University led naturally to the creation in 1948 of a Faculty of Divinity, which assumed the academic functions of the Joint Board, now designated the Montreal School of Theology. In 1970, the name of the Faculty was changed to the Faculty of Religious Studies. This University Faculty now offers the Bachelor of Theology (B.Th.) degree and several graduate degree programs.

12.3 Facilities

The Faculty of Religious Studies is located in the handsome William and Henry Birks Building, erected in 1931, formerly known as Divinity Hall, at 3520 University Street. Besides the usual classrooms, offices, and common rooms, this building accommodates the Birks Heritage Chapel and the Birks Reading Room.

12.4 Birks Lectures

An annual series was established in 1950 through the generosity of the late William M. Birks. The lectures are given by distinguished visitors, usually in late September or early October. The first lecturer was the Right Reverend Leslie Hunter. More recent lecturers have included Huston Smith, Northrop Frye, Wilfred Cantwell Smith, Gregory Baum, Robert McAfee Brown, Krister Stendahl, Charles Adams, Jon Levenson, David Little, Azim Nanji, Paul Griffiths, Bernadette J. Brooten, Harvey Cox, John S. Hawley, Gabriel Vahanian, Oliver O'Donovan, and Jan Assmann.

12.5 Numata Visiting Professor in Buddhist Studies

In recognition of the strong Buddhist Studies program in the Faculty of Religious Studies, the Numata Foundation has given a 20-year grant to the Faculty to bring a visiting scholar in Buddhist Studies to McGill each year.

The visiting professor teaches one course at the 500 level, gives a public lecture, and is available to students for conferences and consultation. The first Numata Professor, in 1999–2000, was Dr. Mahinda Deegalle (Ph.D., Chicago), a Theravada Buddhist Sri Lankan monk. Subsequent visiting professors have included Dr. John Pettit, Professor Robert Morrison, Dr. Thupten Jinpa, Dr. Kate Crosby, Ven. Yifa, Dr. Robert Kritzer, Dr. Andrew Skilton, Dr. Joel Tatelman, Dr. Miriam Levering, Dr. Hiroko Kawanami, Dr. Dorji Wangchuk, Dr. Martin Adam, and Dr. Jin Park. Dr. Roger Jackson will be the visiting professor for 2013–2014.

12.6 About the Faculty of Religious Studies (Undergraduate)

Cultivating a thorough understanding of the world's religions and the roles of religion throughout history and in contemporary society is at the heart of the Faculty of Religious Studies' teaching at the undergraduate level. The Faculty takes a multidisciplinary approach to scholarship on a plurality of religions and incorporates a broad range of perspectives and methods. In studying the world's religious traditions, we emphasize the ways in which religious expression and practices are embedded in culture, politics, aesthetics, and social change. Texts and traditions, languages and literatures, philosophy, and ethics are all integral to our undergraduate programs.

The Faculty's undergraduate teaching supports two degrees, the B.A. and the B.Th. The Bachelor of Theology (B.Th.) offers an intensive study of Christianity primarily for students preparing for the ordained ministry and for other professional careers in pastoral settings such as hospitals and schools. The B.Th. contributes to the professional degree (M.Div.) offered through the Montreal School of Theology with which the Faculty is affiliated.

The B.A. programs in Religious Studies are offered in conjunction with the Faculty of Arts. These programs explore the many cultural, historical, and political issues related to both Eastern and Western religions and to religion in comparative perspective. Majors and minors in World Religions are available, as well as honours and joint honours programs in Religious Studies. In addition, a distinctive strength of the Faculty's offerings is the Major in Scriptures and Interpretations which allows for a concentration on a particular scriptural tradition (Jewish, Christian, or Hindu and Buddhist scriptures); the Minor in Scriptural Languages supports all these concentrations by providing intensive study of either Indo-Tibetan languages or Biblical Languages. Students frequently combine majors and minors in World Religions with a wide range of other B.A. concentrations, highlighting the importance of the rigorous study of religion to many other areas of inquiry.

12.6.1 Location

William and Henry Birks Building
3520 University Street
Montreal, Quebec H3A 2A7
Canada

Telephone: 514-398-4121

Website: www.mcgill.ca/religiousstudies

12.6.2 Administrative Officers

Administrative Officers

Ellen B. Aitken; A.B.(Harv.), M.Div.(University of the South), Th.D.(Harv.) **Dean**

Luvana Di Francesco

Administrative Officer

Francesca Maniaci

Administrative Assistant

Bruna Salhany

Administrative Affairs / Dean's Assistant

12.6.3 Academic Staff

Emeritus Professors

Gregory B. Baum; B.A.(McM.), M.A.(Ohio St.), D.Th.(Fribourg)

Maurice Boutin; B.A., B.A., B.A.(Montr.), D.Th.(Munich)

Robert C. Culley; B.D.(Knox, Tor.), M.A., Ph.D.(Tor.)

Douglas J. Hall; B.A.(W. Ont.), M.Div., S.T.M., Th.D.(UTS, NY), L.L.D.(Wat.), D.D.(Pres. Coll., Montr.), D.D.(Qu.)

Joseph C. McLelland; B.A.(McM.), M.A.(Tor.), B.D.(Knox, Tor.), Ph.D.(Edin.), D.D.(Montr. Dio. Coll.; Knox, Tor.)

Donna R. Runnalls; B.A.(Br. Col.), B.D.(McG.), Ph.D.(Tor.)

Frederik Wisse; Ing.(Utrecht), B.A., B.D.(Calvin, Mich.), Ph.D.(Claremont)

Katherine K. Young; B.A.(Vermont), M.A.(Chic.), Ph.D.(McG.)

Professors

Douglas B. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.) (*Christian Thought*)
 W.J. Torrance Kirby; B.A.(KCNS), M.A., D.Phil.(Oxf.) (*Ecclesiastical History*)
 G.S. Oegema; B.A., Th.D.(Vrije, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen) (*Biblical Studies*)
 Arvind Sharma; B.A.(Allahabad), M.A.(Syrac.), M.T.S., Ph.D.(Harv.) (*Henry Birks Professor of Comparative Religion*)

Associate Professors

Ellen B. Aitken; A.B.(Harv.), M.Div.(Univ. of the South), Th.D.(Harv.) (*Early Christian History and Literature*)
 Lara Braitstein; B.A., M.A., Ph.D.(McG.) (*Indo-Tibetan Buddhism*)
 Daniel Cere; B.A., M.A.(McG.), Ph.D.(C'dia) (*Religion, Ethics, and Public Policy*)
 Gaëlle Fiasse; B.A., M.A., Ph.D.(Louvain) (*Ethics and Religious Ethics*) (joint appt. with Department of Philosophy)
 Garth W. Green; B.A.(Ariz.), M.A.(Boston), M.A.(Louvain), Ph.D.(Boston) (*Philosophy of Religion*)
 Ian H. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.) (*New Testament Studies*)
 G. Victor Hori; B.A.(York), M.A.(Tor.), Ph.D.(Stan.) (*Japanese Religions*)
 Patricia G. Kirkpatrick; B.A.(McG.), M.Th.(Lond.), D.Phil.(Oxf.), D.D.(Montr. Dio. Coll.) (*Old Testament Studies*)
 Daves Soneji; B.A.(Manit.), Ph.D.(McG.) (*South Asian Religion*)

Assistant Professor

Andrea M. Pinkney; B.A.(McG.), M.A.(Hawaii at Manoa), Ph.D.(Col.) (*South Asian Religions*)

Faculty Lecturer

Jim Kanaris; B.A.(C'dia), M.A., Ph.D.(McG.) (*Philosophy of Religion*)

Numata Visiting Professor

Roger R. Jackson; B.A.(Wesl.), M.A., Ph.D.(Madison)

Adjunct Professors

Hillard Todd Goldfarb; A.B.(Bowdoin), A.M.(Harv.), Ph.D.(Harv.)
 Alyson Huntly; Dip.Min.(Centre for Christian Studies, Winnipeg), M.T.S.(St. And., Saskatoon), Ph.D.(Qu.)
 Paul Jennings; B.A., M.A.(Tor.), B.Th.(McG.)
 Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton Theological School)
 William Klempa; B.A.(Manit.), M.A.(Tor.), B.D., D.D.(Knox, Tor.), Ph.D.(Edin.)
 T. Jinpa Langri; Dr. Div., B.A.(King's Coll., Lond.), Ph.D.(Camb.)
 Lucille Marr; B.A., M.A., Ph.D.(Wat.)
 Angelica Piché; B.A.(Saarbrücken), M.Th.(Ludwig-Maximilian)
 Vanessa Sasson; B.A., M.A., Ph.D.(McG.)
 John M. Simons; B.A.(Bishop's), S.T.B.(Trin. Coll., Tor.), Ph.D.(G'town) (PT)
 Dale Woods; B.A.(Alta.), M.C.S.(Regent), M.Div.(Vancouver School of Theology), D.Min.(Luther Seminary, Minneapolis)

Course Lecturers (2013–2014)

Jeffrey Keiser; B.Sc.(Biola), M.T.S.(Harv.), Ph.D. Candidate(McG.)
 Lei Kuan Lai; B.A.(University of the West in Rosemead), M.A.(Qu.), Ph.D. Candidate(McG.)
 Lucille Marr; B.A., M.A., Ph.D.(Wat.)
 Eliza Rosenberg; B.A.(Oberlin), M.A.(McG.), Ph.D. Candidate(McG.)
 Shayna Sheinfeld; B.A.(De Paul), M.T.S.(Harv.), Ph.D. Candidate(McG.)
 Thomas Troughton; B.A.(C'dia), M.A.(McG.), Ph.D. Candidate(McG.)
 Jonathan Waind; B.A.(Briercrest), M.T.S.(Trin. W.), M.A.(McG.), Ph.D. Candidate(McG.)

12.7 Overview of Degrees Offered

Degrees Offered by the Faculty

[section 12.7.1: Bachelor of Arts in Religious Studies](#)

[section 12.7.2: Bachelor of Theology](#)

[section 12.7.3: Master of Divinity](#)

12.7.1 Bachelor of Arts (B.A.) in Religious Studies

Honours concentration, Major concentration and Minor concentration in Religious Studies are offered in cooperation with the Faculty of Arts.

Admission is to the Faculty of Arts and all admission requirements and procedures, academic rules, and regulations of that Faculty apply to students in these programs.

For general information on B.A. Honours, Major concentrations, and Minor concentrations, consult the advisers. Check the Faculty's website for a list of advisers. Detailed descriptions of the Religious Studies programs for Arts students are found in *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > [section 3.10.44: Religious Studies \(RELG\)](#)*. Religious Studies B.A. Honours, Major, and Minor students may take any of the courses described in the programs except where otherwise indicated. For specific course information, consult the instructor.

Students who are interested in the Bachelor of Theology (B.Th.) ([section 12.7.2: Bachelor of Theology \(B.Th.\)](#)) or Master of Divinity (M.Div.) ([section 12.7.3: Master of Divinity \(M.Div.\)](#)) programs should refer to the appropriate section.

12.7.2 Bachelor of Theology (B.Th.)

The main goals of the Bachelor of Theology (B.Th.) program are:

1. to offer academic instruction in the disciplines of theology within a university setting;
2. to contribute to preparation for ministry in the contemporary world by giving special attention to the Canadian and North American contexts, the Quebec context, and religious pluralism.

The Bachelor of Theology (B.Th.) may be taken as a first or second baccalaureate degree.

As a first degree (90 or 120 credits), it offers a more intensive study of Christianity than is available within the Bachelor of Arts (B.A.) programs, while also permitting the student to combine this specialization with other academic or professional interests, whether in Religious Studies or in other faculties and schools of the University.

As a second bachelor's degree (60 credits), the Bachelor of Theology (B.Th.) program is designed primarily for those who intend to qualify for the ordained ministry in a Christian denomination, although here too, some students pursue the degree out of an interest in the academic study of theology for its own sake, or with a view to combining these studies with proficiency gained in other disciplines. The 60-credit program forms the core of the Bachelor of Theology (B.Th.) degree.

Those studying for the ordained ministry usually pursue the Bachelor of Theology (B.Th.) as part of a Master of Divinity (M.Div.) offered by one of the three Theological Colleges affiliated with McGill University in the Montreal School of Theology: Montreal Diocesan Theological College (Anglican Church of Canada), the Presbyterian College (Presbyterian Church in Canada), and United Theological College (United Church of Canada).

12.7.2.1 ATS Accreditation

The B.Th. program offered by McGill and the M.Div. program offered by the Theological Colleges are together fully accredited by the Association of Theological Schools in the U.S. and Canada (ATS).

12.7.2.2 Admission Requirements

The B.Th. program has three points of entry:

1. To enter the 120-credit degree program from outside Quebec, you must hold a high school diploma, unless you qualify as a mature student. A maximum of 60 credits from another institution of higher learning can be considered for transfer into the 120-credit program.
2. To enter the 90-credit first-degree program, you are expected to have completed the Diploma of Collegial Studies (DCS) from a Quebec CEGEP with a minimum average of Cote R of 24, or the equivalent elsewhere. A maximum of 30 credits from another institution of higher learning can be considered for transfer into this program.
3. To enter the 60-credit program, you must have completed a B.A. or other bachelor's degree with a minimum CGPA of 2.7 (B-). No credits can be transferred from another institution of higher learning into the 60-credit program.

Any McGill student in good standing, with a minimum of 30 credits, may apply for transfer from their current degree program into the B.Th. program. B.Th. students entering the 120- or 90-credit programs are free to pursue minors in other departments, schools, or faculties, in consultation with their B.Th. adviser(s).

12.7.2.2.1 Mature Student Admissions Policy

Those who will be 23 years of age or older by September 1 of the year that they seek admission (or by January 1 for admission to the Winter term) and who lack the academic qualifications normally required for entry into the B.Th. program may apply as mature students for admission to a qualifying year in the B.Th. program.

Admitted students enrol in a qualifying year (30 credits) of designated Religious Studies and Arts courses (determined by the Chair of the B.Th. Committee).

Those who, during the qualifying year, earn a CGPA of 2.5 to 2.9 (with no grade less than 60%) normally will be granted admission to the 120-credit B.Th. program. Credits completed during the qualifying year may be applied toward the 120-credit requirement.

Those who, during the qualifying year, earn a CGPA of at least 3.0 (having taken 30 credits, including at least two 300-level courses and with no grade less than 65%) normally will be granted admission to the 90-credit B.Th. program. Credits completed during the qualifying year may be applied toward the 90-credit requirement.

Students who, during the qualifying year, do not earn a minimum CGPA of 2.5 or who have grades less than 60%, may apply to retake courses, pending approval of the Chair of the B.Th. Committee.

12.7.2.3 Proficiency in English

The language of instruction for most courses at McGill University is English; however, you may make arrangements to write term papers, examinations, and theses in English or in French, except in courses where knowledge of the language is one of the objectives of the course. You must demonstrate an adequate level of English proficiency prior to admission to McGill, regardless of citizenship status or country of origin. For non-Canadian applicants whose mother tongue is not English, a Test of English as a Foreign Language (TOEFL) is required, with a minimum score of 577 for the paper-based version and of 90 for the new Internet-based composite score (iBT). For the iBT, a minimum score of 21 is also required in each individual component of reading, writing, listening, and speaking. Permanent residents of Canada may be required to submit a TOEFL score as well. Note: The McGill ETS Institution code is: 0935.

12.7.2.4 Applying to the B.Th. Program

All applications must be made online at the McGill University website for prospective students: www.mcgill.ca/applying. The online application process should take about 20 minutes and a credit card is required for payment of the application fee. Once completed, the online application form may be printed for your own records.



Note: Owing to McGill University's implementation of a comprehensive online application system, paper applications to the B.Th. Program can no longer be accepted. All applicants must apply online.

12.7.2.4.1 Required Documents

- Transcript(s) of all previous post-secondary academic work. Copies of your **unofficial transcript(s)** can be uploaded to complete your application. **Official transcript(s)** are required only if you are admitted and must be mailed directly from the institution to the mailing address below.
- Personal Statement, according to the directions in the application. Please download and use the following form: [Personal Statement Form](#).

NEW! Uploading your documents: After your application has been received, you will be given access to your Minerva account, where you will be able to upload your **unofficial transcripts** and **personal statement** to complete your application. You can find full instructions on how to prepare, upload, and submit relevant documents at www.mcgill.ca/applying/submitting_your_documents/uploadingdocuments.

- Two letters of recommendation including at least one from an instructor in an academic institution previously attended. Your referee must download and use the following form: [BTh Reference Form](#).

The two letters of recommendation must be sent to the mailing address below.

Mailing Address

By mail:

Bachelor of Theology Program
McGill University
Enrolment Services Documentation Centre
688 Sherbrooke Street West, Suite 760
Montreal, Quebec H3A 3R1
Canada

Drop-off or courier:

McGill University
Enrolment Services
Service Point
3415 McTavish Street
Montreal, Quebec H3A 0C8
Canada

If you are applying for admission to one of the Theological Colleges, another complete set of these required documents must also be sent to the College concerned.

Please note that your file will not be considered by the Admissions Committee until all the required documents have been received.

12.7.2.5 Application Deadlines

Applicants to the B.Th. program may be accepted into the Fall, Winter, or Summer term. The online application deadlines are:

- **May 1st** for September Admission (Canadian and International applicants)
- **June 15th** for September Admission (College affiliated applicants only)
- **September 15th** for January Admission (International applicants)
- **November 1st** for January Admission (Canadian applicants)
- **March 1st** for May Admission (Canadian and International applicants)

Please note that all required documents listed in [section 12.7.2.4: Applying to the B.Th. Program](#) must be received by the Faculty of Religious Studies prior to these deadlines in order for the applicant to be considered by the Admissions Committee.

12.7.2.6 Tuition Fees and Funding

Information concerning current tuition fees can be found at: www.mcgill.ca/student-accounts. Applicants for admission to one of the affiliated Colleges should contact the institution concerned for information regarding College-related fees.

12.7.2.7 Admissions Review Procedure

An unsuccessful applicant, or a Faculty of Religious Studies Council member acting on behalf of an unsuccessful applicant, who believes that not all factors having a bearing on the application have been fully considered, may submit a request for a review of the decision.

The request must be made in writing and directed to the Chair of the B.Th. Admissions and Awards Committee. A CAD\$40 certified cheque or money order made payable to McGill University must accompany the request.

The request for review must include information in support of reconsideration, such as a description of significant change in the applicant's circumstances since the initial consideration, correction of any missing or erroneous information in the application, or information that the applicant believes may have been overlooked when the original decision was made.

Requests for reconsideration must be received at McGill no more than two weeks after notification of refusal.

The review procedure will be carried out by the B.Th. Admissions and Awards Committee. Please note that the original admission decision will stand unless the Committee is persuaded that admissions standards have been misapplied or that an applicant's academic record has been misapprehended.

Decisions on Special, Visiting, and Exchange applications are final; requests for reconsideration will not be considered.

12.7.2.8 Registration Procedures

All students register by Minerva, McGill's web-based registration system. Minerva provides web access to registration, class schedules, course descriptions, and address changes.

For detailed information about registration, refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.3: Registration](#) or www.mcgill.ca/newstudents, and to the courses website, www.mcgill.ca/students/courses.

12.7.2.9 Withdrawal Procedures

Dropping or adding courses must be done via Minerva, prior to the deadline listed in this publication (see [section 12.7.2.8: Registration Procedures](#)).

Permission of the adviser is required for all changes to course selection. In case of withdrawal from the University prior to the published course withdrawal deadline, you must withdraw from all courses via Minerva. In addition, you must contact the Chair of the Bachelor of Theology (B.Th.) Committee and complete the necessary withdrawal form.

12.7.2.10 Graduation Requirements

1. The B.Th. is either a 120-credit program (if you were admitted from outside Quebec and without a prior Bachelor's degree), a 90-credit program (if you were admitted on the basis of a Quebec D.C.S. or equivalent), or a 60-credit program (if you were admitted on the basis of a recognized bachelor's degree).
2. Qualification for the degree must include Satisfactory Standing (a grade of C or better) in all required courses and the complementary courses specified in Year 3, and the accumulation of enough acceptable credits to make a total of either 60, 90, or 120 credits. It should be noted that if you take the B.Th. program as part of the M.Div. program, you need to maintain a minimum CGPA of 2.5 to be eligible for the M.Div. degree.
3. Normally, the program credits must be earned within five years from the date of entrance.

12.7.2.11 Course Selection

You are to seek the guidance of your adviser(s) when registering for courses. You must have your courses approved and your Minerva form signed by the Chair of the Bachelor of Theology (B.Th.) Committee before classes begin. If you are affiliated with one of the Theological Colleges, your Minerva form must first be approved and signed by your College adviser.

12.7.2.12 Academic Standing and Course Loads

12.7.2.12.1 Satisfactory Standing

You enter the University in Satisfactory Standing and remain in this Standing unless your grade point average (GPA) or cumulative grade point average (CGPA) for any year drops below 2.00. The normal course load in any academic session is five courses per term (15 credits per term). If you have a high GPA (at least 3.00), you may take more than the normal five courses per term.

12.7.2.12.2 Probationary Standing

You are placed in Probationary Standing if either your CGPA or your term GPA falls between 1.50 and 1.99. (If you are a part-time student, your GPA is calculated on the basis of your last 9 credits.) While in Probationary Standing, you may take a minimum of 6 credits and a maximum of 12 credits per term.

While in Probationary Standing, you may return to Satisfactory Standing by completing 12 additional credits with a GPA of at least 2.50, or by completing 12 credits with a GPA and a CGPA of 2.00 or greater.

As a student in Probationary Standing, if you fail to achieve the levels of performance specified above, you will be placed in Unsatisfactory Standing, unless you obtain a GPA of 1.50–1.99 while continuing to have a CGPA of 2.00 or greater.

12.7.2.12.3 Unsatisfactory Standing

You are placed in Unsatisfactory Standing if you have a GPA of less than 1.50.

As a student in Unsatisfactory Standing, you will have to withdraw, or seek readmission as a probationary student with special permission from the B.Th. Committee and the Dean. If you are a student who is readmitted on Probationary Standing, you may have additional restrictions or conditions to meet over and above those required of students referred to above under “Probationary Standing.”

In the event that you are placed in Unsatisfactory Standing for a second time, you must withdraw permanently.

12.7.2.12.4 Incomplete Standing

If, in any year, your record shows a mark of K, K*, L, L*, or &&, you will have no GPA or CGPA calculated for that year, and your record will show “Standing Incomplete.” After completing the appropriate course requirements, your GPA and CGPA will be calculated and your Standing determined as described above.

If your Standing is still “Incomplete” at the time of registration for the next academic year, you must obtain a *Letter of Permission to Register* from the Chair of the B.Th. Committee.

12.7.2.13 Academic Achievement

Several designations are used to acknowledge the superior academic achievement of in-course and graduating students. These designations are awarded at the discretion of the Faculty.

Dean's Honour List: to designate *in-course* students who have completed a minimum of 27 credits during regular session (14 credits for those registered for one term) and have attained a GPA placing them in the top 5% - 10% of their class.

12.7.2.13.1 Graduation Honours

Dean's Honour List: For information on the designation of Dean's Honour List awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.1: Graduation Honours: Dean's Honour List](#)*.

Distinction: For information on the designation of Distinction awarded at graduation, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > [section 1.9.2: Graduation Honours: Distinction](#)*.

Honours: to designate graduating students who have completed a minimum of 60 credits at McGill and have fulfilled the Honours course requirements with a CGPA of 3.20, or 3.50 for First Class Honours.

12.7.2.14 Evaluation

Competence in a course may be determined by examinations and/or essays, or by other means chosen by the instructor and approved by the Dean.

12.7.2.15 Bachelor of Theology (B.Th.) - Religious Studies (120 credits)

The Bachelor of Theology (B.Th.) degree requires 120 credits. Many students enter the program with advanced standing, and their credit requirement for the degree is adjusted accordingly.

All students must discuss their course selection with their program adviser.

The required and complementary course requirements below describe the program for students who enter in Year 1 (U1) with 30 credits of advanced standing based on a Quebec Diploma of Collegial Studies (DEC).

Students admitted directly from high school into U0 must consult their program adviser regarding appropriate courses for their first year of study.

Students admitted on the basis of a bachelor degree will have advanced standing and should consult their program adviser to determine any course equivalencies completed during their first degree and how these affect their program requirements for the Bachelor of Theology. Normally, these students start in Year 2 (U2) and follow the requirements below starting with Year 2.

The normal course load in the degree for full-time students is 15 credits per term, five 3-credit courses.

By permission of the Dean and the Chair of the B.Th. Committee, students may also enrol for courses at any university in the province of Quebec. For further information, see "Quebec Inter-University Transfer Agreement: McGill Students" in the "University Regulations and Resources" section under "Registration."

Professional and vocational courses (e.g., leading to ordination) are available through the In-Ministry Year (Master of Divinity (M.Div.)) upon the completion of the B.Th. degree.

First Year (U0) - Courses (30 credits)

Courses are to be selected in consultation with the student's program adviser for students admitted from high school into U0.

Required Courses (9 credits)

PHIL 200*	(3)	Introduction to Philosophy 1
PHIL 201*	(3)	Introduction to Philosophy 2
RELG 203	(3)	Bible and Western Culture
RELG 207	(3)	The Study of World Religions 1

* Students may select either PHIL 200 or PHIL 201.

Complementary Courses (21 credits)

3 credits in History and Classical Studies at the 200 or 300 level

3 credits in Catholic Studies, Jewish Studies, or Islamic Studies at the 200 or 300 level

6 credits in languages (ancient or modern), literature (other than biblical), Art History, or Music at the 200 or 300 level

9 credits to be determined in consultation with the B.Th. program adviser

Note: All courses at the 300 level require Faculty approval.

Year 1 (U1) - Required Courses (12 credits)

Students admitted to U1 on the basis of a Quebec Diploma of Collegial Studies (DEC) will normally take the following required courses in their first year.

By permission of the B.Th. Committee, students may substitute courses for any of the required courses if they have already taken them or similar courses for credit elsewhere.

RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 321	(3)	Western Intellectual Tradition
RELG 334	(3)	Christian Thought and Culture

Year 1 (U1) - Complementary Courses (18 credits)

3 credits selected from the following list (or another approved course in ethics):

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 240	(3)	Political Philosophy 1
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics

3 credits selected from the following list (or 3 credits in Political Science, Sociology, Psychology, or Philosophy and Western Religions):

RELG 331	(3)	Religion and Globalization
RELG 375	(3)	Religion, Politics and Society

12 credits to be determined in consultation with the B.Th. program adviser

Year 2 (U2) - Required Courses (24 credits)

Students entering the B.Th. as a second degree program would normally take 60 credits and begin with Year 2 (U2) courses. These students should verify with their program adviser regarding course substitutions if they have completed similar courses elsewhere.

RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 333	(3)	Principles of Christian Theology 1
RELG 341	(3)	Introduction: Philosophy of Religion

Year 2 (U2) - Complementary Courses (6 credits)

To be chosen from among the 300- or 400-level courses offered in the B.Th. or B.A. Religious Studies programs (or RELG 280D1/RELG 280D2) in consultation with the B.Th. program adviser.

RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek

Year 3 (U3) - Required Courses (12 credits)

* Note: RELG 420 may be replaced with another course if recommended by the program adviser.

RELG 420*	(3)	Canadian Church History
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective

Year 3 (U3) - Complementary Courses (18 credits)

18 credits selected as follows:

One 3-credit course in a religious tradition other than Christianity, such as the courses listed below.

Students who have previously completed a university-level course in world religions may replace this with another complementary course.

ISLA 380	(3)	Islamic Philosophy and Theology
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 352	(3)	Japanese Religions
RELG 354	(3)	Chinese Religions

9 credits, one 3-credit course in each of the following areas:

Old Testament

3 credits from:

RELG 407	(3)	The Writings

RELG 408 (3) The Prophets

New Testament

3 credits from:

RELG 411 (3) New Testament Exegesis
RELG 482 (3) Exegesis of Greek New Testament

Christian Theology

3 credits from:

RELG 330 (3) Reformed Theology
RELG 336 (3) Contemporary Theological Issues
RELG 399 (3) Christian Spirituality
RELG 423 (3) Reformation Thought

6 credits, to be chosen from among the 300- or 400-level courses offered in the B.Th. or B.A. Religious Studies programs (or RELG 280D1/RELG 280D2) in consultation with the B.Th. program adviser.

12.7.2.16 Bachelor of Theology (B.Th.) - Honours Religious Studies (120 credits)

Students who have achieved a CGPA of 3.30 at the end of B.Th. Year 2 (U2) may apply to the B.Th. Committee for permission to enter the Honours program. They will be required to complete the normal requirements for the B.Th. degree and the honours courses RELG 494 and RELG 495 in the B.Th. Year 3 (U3) with a grade of B or better.

Year 3 (U3) - Required Courses - Honours (6 credits)

RELG 494 (3) B.Th. Honours Seminar 1
RELG 495 (3) B.Th. Honours Seminar 2

12.7.3 Master of Divinity (M.Div.)

Students who have completed a first degree prior to the B.Th. with a minimum CGPA of 2.7 are eligible to apply the B.Th. degree toward the Master of Divinity (M.Div.) degree conferred by the Theological Colleges. This degree requires, in addition to the B.Th. degree, successful involvement in integrative seminars during the two B.Th. years and a year of professional pastoral study beyond the B.Th. This is called the “In-Ministry Year” (IMY) and is offered by the three affiliated Theological Colleges under the auspices of the Montreal School of Theology.

Students from the affiliated colleges may be eligible for bursary assistance if they are properly registered candidates for the ministry. Information about church requirements and the professional year should be sought from the principals of the appropriate colleges.

One biblical language, usually Greek, is required by some of the colleges. Ministerial candidates should consult with the College advisers regarding biblical language requirements.

Prospective candidates for ordination with a B.A. Honours or Major in Religious Studies and a CGPA of 3.3 (B+) may apply for the Master of Sacred Theology (S.T.M.) degree, followed upon completion by the professional year (IMY).

Applicants for the M.Div. program must apply to the McGill B.Th. program as well as to one of the Theological Colleges. College application forms should be requested from one of the following:

The Montreal School of Theology
(formerly the Joint Board of Theological Colleges)
École théologique de Montréal (affiliée à l'Université McGill)
3475 University Street
Montreal, Quebec H3A 2A8

Montreal Diocesan Theological College
Séminaire Diocésain de Montréal
3475 University Street
Montreal, Quebec H3A 2A8

The Presbyterian College
Le Collège Presbytérien
3495 University Street
Montreal, Quebec H3A 2A8

The United Theological College
Le séminaire Uni
3521 University Street
Montreal, Quebec H3A 2A9

Prospective students should contact the Chair of the B.Th. Committee to discuss their qualifications, expectations, and objectives. Appointments can be made by emailing Professor Douglas Farrow at douglas.farrow@mcgill.ca.

13 Faculty of Science

13.1 About the Faculty of Science

The Faculty of Science aims to be a leader in finding solutions critical to economic and human development, including key questions in the environmental sciences, new materials, and new technologies.

To help us achieve these goals, the Faculty has recruited the best scientific minds of this generation and is committed to ensuring that our undergraduate and graduate students receive an education that prepares them for a lifetime of accomplishment. Not only will these new recruits perform key research work, they will also take on an equally important task: teaching the scientists and leaders of tomorrow. Over the next decade, many of these dynamic young academics will become world leaders in their disciplines. The process has already begun in fields as diverse as neuroscience, astrophysics, green chemistry, and earth system science.

Moreover, we are in the process of boldly transforming the way science is taught, with an increased emphasis on student/professor interaction and outreach. This new approach is reflected in the Faculty's slogan, *Learning Through Discovery*, which emphasizes hands-on research at the undergraduate level and a more personal, one-on-one style between professors and students that traditionally did not begin until the graduate level. In 2005, the Faculty opened its Office for Undergraduate Research in Science and launched a new Freshman Interest Groups program, which allows groups of 10 to 15 Freshman students to meet with a professor weekly.

The Faculty counts undergraduate students as one of its key strengths. The calibre of McGill's undergraduates is very high—they boast the highest average entrance grades in Canada—and the Faculty understands that these brilliant young minds are the key to its future.

13.2 History of the Faculty of Science

The study of science at McGill goes back almost two centuries, when the lower campus was a rough and muddy cow pasture and the University struggled to establish itself. In 1855, the job of principal was given to a Nova Scotia-born geologist, John William Dawson. When he arrived at McGill, Dawson laid out plans for walks and roads, and at his own expense arranged the planting of trees on the entrance avenue. More importantly, Dawson worked diligently to transform McGill from a poorly equipped provincial college into one of the best scientific institutions in the world. In 1882, he successfully lobbied for the creation of the Royal Society of Canada and brought international renown to McGill.

In the century and a half since Dawson steered the Faculty of Science onto the path of excellence, the Faculty has received numerous honours for its groundbreaking research, including Nobel prizes to seven Science alumni or Faculty members, as well as over 100 fellowships in the Royal Society of Canada. More importantly, McGill's scientists have made the world a better place in which to live and have provided answers to the deepest mysteries facing humanity. Examples of McGill's breakthroughs include the world's first effective anti-retroviral HIV drug, the theory explaining photosynthesis, and the discovery of the fastest-spinning pulsar in the known universe.

McGill's Faculty of Science has a long tradition of discovery and innovation that no other Canadian university, and only a handful of U.S. schools can match. Our long tradition of scientific leadership, and the illustrious roster of McGill researchers who changed the world—Sir Ernest Rutherford, Harriet Brooks, Ronald Melzak, Bernard Belleau, Leo Yaffe, and Vicky Kaspi, to name only a few—are key attributes.

The Faculty of Science's roots are not only strong, but they display a deep commitment to excellence. Whether it's bringing the best scientists in the world to our new Life Sciences Complex, or studying and suggesting ways in which we can help heal the Earth's fragile ecosystem, the Faculty remains committed to Dawson's vision of bringing the best to the world.

13.3 Programs and Teaching in Science

The Faculty of Science is committed to providing outstanding teaching and research facilities. The Faculty draws on its involvement in cutting-edge research to ensure teaching excellence at the undergraduate level. Professors who spearhead projects that change people's understanding of the world teach regularly at the undergraduate level. Also, research-based independent study courses offer you the opportunity to contribute to your professors' work, rather than just learn about it.

In an effort to supplement classroom learning with real life experience, the Faculty of Science has increased opportunities for undergraduate students to participate in fieldwork. All B.Sc. programs can include an internship component. This is on top of the many undergraduate students the Faculty hires for Work Study projects and other research programs. As a McGill Science student, you have an opportunity to get involved in the structuring of your own education.

The Faculty of Science offers programs leading to the degree of Bachelor of Science (B.Sc.). Admission is selective; fulfilment of the minimum requirements does not guarantee acceptance. Admission criteria are described in the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

There are also two Diploma programs offered in Science. The *Diploma in Environment*, under *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment > Undergraduate > section 7.14.1: Diploma in Environment (30 credits)*, is a 30-credit program available to holders of a B.Sc. or B.A. or equivalent. The *Diploma in Meteorology* is a one-year program available to holders of a degree in Mathematics, Engineering, Physics, and other appropriate disciplines who wish to qualify for a professional career in Meteorology; see *section 13.13.3: Atmospheric and Oceanic Sciences (ATOC) > section 13.13.3.9: Diploma in Meteorology (30 credits)*. All credits for these diplomas must be completed at McGill.

The Concurrent B.Sc. and B.Ed. program is designed to provide you with the opportunity to obtain both a B.Sc. and a B.Ed. after a minimum of 135 credits of study. For more information, see *section 13.13.34: Science or Mathematics for Teachers* and *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Education*.

In addition to the Major program in Software Engineering offered in the Faculty of Science, there is also a Bachelor of Software Engineering program offered jointly with the Faculty of Engineering (refer to *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Undergraduate > Academic Programs > section 6.12.5: Department of Electrical and Computer Engineering*).

Finally, the Faculties of Arts and Science jointly offer the Bachelor of Arts and Science (B.A. & Sc.), which is described under *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts & Science*.

13.4 About the Faculty of Science (Undergraduate)

- McGill's second-largest faculty: 14 schools and departments, including the Redpath Museum, Canada's oldest museum of natural history focusing on teaching, research, and outreach; 20 research centres and institutes
- Students: 4361 undergraduate, 906 graduate, and 131 postdoctoral researchers, for a total of 5398 students
- 265 faculty members, including tenured and tenure-track professors
- Has produced seven Nobel laureates: five were Faculty of Science graduates, while two winners were Science Faculty members.
- Research budget of approximately \$40 million, including \$18 million from the Natural Sciences and Engineering Research Council of Canada, \$5 million from Quebec and increasing annually. Approximately \$150,000 generated annually per professor. Average of four papers per year.
- Faculty renewal: aided by a pool of innovative government initiatives such as the Canada Foundation for Innovation and its Canada Research Chairs program, as well as the Quebec Tax Holiday for technical workers; the Faculty has recruited 160 new professors since 2000.
- Canadian leader in Astrophysics and Cosmology, Climate Change and Extreme Weather, Green Chemistry, Life Sciences (developmental biology and cell information transfer), Earth Systems Science, Biodiversity and Conservation, Nanoscience and Social Neuroscience
- Lead faculty in the establishment of the multidisciplinary **McGill School of Environment** in 2000
- Offers top students an important **Field Studies Program**, which takes students out of the classroom and into the world to conduct research in biodiversity, climate change, volcanology, geology, and marine biology, and to work with native populations, governments, and NGOs in countries as wide-ranging as Africa, Panama, Barbados, the U.S., and Canada—all the way to Axel Heiberg Island, the University's Arctic research station.
- Established the **Reginald Fessenden Professorships and Prizes in Science Innovation**, the first such endowed program in Canada, to encourage and support the commercialization of research in Science conducted by world-class scholars.
- McGill's most multidisciplinary faculty, which conducts teaching and research in collaboration with many of the University's other faculties, including Medicine, Engineering, Music, Arts, Education, Management, and the Montreal Neurological Institute in neuroengineering and brain imaging
- Spearheaded the largest and most recent construction project at McGill, the **\$120 million McGill Life Sciences Research Complex**, consisting of the **Francesco Bellini Building** and **Cancer Research Building**, which are physically linked to the McIntyre Medical and the Stewart Biology buildings.
- Established Canada's first comprehensive **Earth System Science Program** in 2006–2007, to study and research new forms of energy and gain a better understanding of climate change and natural hazards.
- Innovative: the **Tomlinson University Science Teaching Project** conducts groundbreaking university-level science education research, and develops innovative and effective teaching methods for science instructors.
- Inaugurated the **Office for Undergraduate Research** and the **Science Undergraduate Research Awards** to encourage top students to connect with professors during their degree program and pursue research projects in fields of interest, and established the **Freshman Interest Group** program, which provides an opportunity to meet other students, and help young students become more comfortable talking to and interacting with other professors.

13.4.1 Location

Dawson Hall
853 Sherbrooke Street West
Montreal, Quebec H3A 0G5
Canada

Telephone: 514-398-5442

Faculty website: www.mcgill.ca/science

Science Office for Undergraduate Student Advising (SOUSA): www.mcgill.ca/science/student

The Science Office for Undergraduate Student Advising (SOUSA) and the Office of the Director of Advising Services of the Faculty of Science are located in Dawson Hall, on the ground floor. SOUSA serves students in the B.Sc. and B.A. & Sc. degrees.

13.4.2 Administrative Officers

Dean

Martin Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.)

Associate Dean (Academic)

Laurie Hendren; B.Sc., M.Sc.(Qu.), Ph.D.(C'nell)

Director of Advising Services

Nicole Allard; B.A.(W. Ont.), M.A.(Guelph), M.Ed.(McG.)

Associate Dean (Research and Graduate Education)

Peter Grütter; Ph.D.(Basel) (*James McGill Professor*)

Chief Academic Adviser

Pete Barry; B.Sc.(C'dia), M.Sc.(McG.)

Assistant to the Dean

Josie D'Amico

13.4.3 Science Office for Undergraduate Student Advising (SOUSA)

The Science Office for Undergraduate Student Advising (SOUSA) provides ongoing advice and guidance on academic issues related to programs, degree requirements, registration, course change, withdrawal, deferred exams, supplemental exams, academic standing, inter- and intra-faculty transfer, year or term away, transfer credits, second programs, second degrees, and graduation.

Every student in the B.Sc. degree is assigned an adviser in SOUSA. The adviser's name appears near the top of your Advising Transcript on Minerva. You can contact your adviser directly, or if you do not yet have a SOUSA adviser, at adviser.science@mcgill.ca.

SOUSA advisers provide assistance with degree planning and are a valuable referral source. They are a good place to start if you are not sure where to address your question. They also offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions.

Special requests can be made, in writing, to the Director of Advising Services.

The Committee on Student Standing (CSS) will consider appeals of the Director of Advising Services' decisions. For information about CSS, see the Director of Advising Services' assistant.

13.5 Faculty Admission Requirements

For information about admission requirements for the B.Sc., please refer to the *Undergraduate Admissions Guide*, found at www.mcgill.ca/applying.

For information about inter-faculty transfers, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > section 1.3.15: Interfaculty Transfer* as well as the relevant information posted on the SOUSA website at www.mcgill.ca/science/student/general/transfer.

13.6 Faculty Degree Requirements

Each student in the Faculty of Science must be aware of the Faculty regulations as stated in this publication and on the McGill, Science, and SOUSA websites.

While departmental and faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of course selection and registration, for compliance with, and completion of, program and degree requirements, and for the observance of regulations and deadlines, *rests with you*. It is your responsibility to seek guidance from the Science Office for Undergraduate Student Advising (SOUSA) if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

To be eligible for a B.Sc. degree, you must fulfil all Faculty and program requirements as indicated below:

Faculty and program requirements

[section 13.6.1: Minimum Credit Requirement](#)

[section 13.6.2: Residency Requirement](#)

[Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Records > \[section 1.5.3: Grading and Grade Point Averages \\(GPA\\)\]\(#\)](#)

[section 13.6.3: Time and Credit Limit for the Completion of the Degree](#)

[section 13.6.4: About Program Requirements](#)

[section 13.6.5: Course Requirements](#)

13.6.1 Minimum Credit Requirement

The minimum credit requirement for your degree is determined at the time of acceptance and is specified in your letter of admission.

Students are normally admitted to a four-year degree requiring the completion of 120 credits.

13.6.1.1 Advanced Standing

Advanced Standing of up to 30 credits may be granted to students who obtain satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, Advanced Placement tests, or the Diploma of Collegial Studies (DCS). Quebec students with a DCS in Science are granted 30 credits Advanced Standing and will have normally completed the equivalent of, and are therefore exempt from, the basic science courses in biology, chemistry, mathematics, and physics. Students with satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests may be exempt from some or all of the basic science courses. You will not be given additional credit toward your degree for any McGill course where the content overlaps substantially with any other course for which you have already received credit, such as for Advanced Standing results.

AP Examination results with a score of 4 or 5 **must** be declared by you at the time of initial registration at the University.

For more information about Advanced Standing, consult: www.mcgill.ca/students/transfercredit.

13.6.1.2 Equivalencies for Non-Basic Science Courses

Note that equivalencies for some non-basic science courses, such as CHEM 212 and 222 and PSYC 204, are granted on a per-CEGEP basis. In some cases, a grade greater than the minimum passing grade may be required. For more information about equivalences for non-basic Science courses, please consult: www.mcgill.ca/students/transfercredit/prospective/cegep.

If the CEGEP and/or course is not listed on this website, you should refer to the SOUSA website and follow the instructions for advanced standing for students admitted to McGill from CEGEP: <http://www.mcgill.ca/science/student/newstudents/u1/orientation>.

13.6.1.3 Readmission after Interruption of Studies for a Period of Five Consecutive Years or More

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of a program. In this case, a new CGPA will be calculated. The Director of Advising Services, in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are subject to the program and degree requirements in effect at the time of readmission. The Director of Advising Services, in consultation with the department, may approve exemption from any new requirements.

13.6.2 Residency Requirement

To obtain a B.Sc. degree, you must satisfy the following residency requirements: a minimum of 60 credits of courses used to satisfy the B.Sc. degree requirements must be taken and passed at McGill, exclusive of any courses completed as part of the Science Freshman program; see [section 13.13.1: B.Sc. Freshman Program](#). At least two-thirds of all departmental program requirements (Honours, Major, Core Science Components, or Minor) must normally be completed at McGill not including courses completed in a prior McGill degree. Exceptionally, students in major concentrations or interfaculty or honours programs who pursue an approved Study Away or Exchange program may, with prior approval from both their department and the Director of Advising

Services, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

The residency requirement for diploma programs is 30 credits completed at McGill.

13.6.3 Time and Credit Limit for the Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the degree.

If you are a student in the Freshman Program, you become subject to these regulations one year after your initial registration. If you want to exceed this time limit, you must seek permission of the Director of Advising Services of the Faculty of Science.

If you are registered in the B.Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you obtain 120 credits. If you want to remain at McGill beyond that semester, you must also seek permission of the Director of Advising Services, Faculty of Science. Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. If permission is granted, you will receive credit only for required and complementary courses necessary to complete your program requirements.

13.6.4 About Program Requirements

The Faculty of Science offers a vast array of study and research opportunities at the undergraduate level, and it is very important that you familiarize yourself with all the alternatives open to you before deciding on a program of study. For an overview of programs offered in the B.Sc., see the Faculty of Science Programs of Study at: www.mcgill.ca/science/programs.

13.6.4.1 Liberal, Major, and Honours Programs

As a Science student, if you need 96 or fewer credits to complete your degree requirements, you are required to select your courses in each term with a view to timely completion of your degree and program requirements. You must register in one of the following types of departmental programs leading to the degree of Bachelor of Science:

13.6.4.1.1 Liberal Programs

Liberal programs provide students with the opportunity to study the core of one science discipline along with a breadth component from another area of science or from many other disciplines. In a liberal program, you must complete a Core Science Component (CSC) (45–50 credits), plus a Breadth Component (at least 18 credits). The requirements for the Core Science Components are given under departmental sections of this publication whenever applicable.

For the Breadth Component, you must complete one of the following:

- Minor Program (18–24 credits) – one of the programs listed in [section 13.10.2: Minor Programs](#).
- Arts Minor or Major Concentration (18 or 36 credits) – one of the programs listed in [section 13.10.6: Faculty of Arts Major and Minor Concentration Programs Available to Science Students](#).
- A Core Science Component in a second area (45–50 credits) – at least 24 credits must be distinct from the courses used to satisfy the primary Core Science Component. Note that a second Core Science Component can be selected from any of the Science groups.

13.6.4.1.2 Major Programs

Major programs are more specialized than liberal programs and are usually centred on a specific discipline or department.

13.6.4.1.3 Honours Programs

Honours programs typically involve an even higher degree of specialization, often include supervised research, and require students to maintain a high academic standard. Although honours programs are specially designed to prepare you for graduate studies, graduates of the other degree programs may also be admissible to many graduate schools. If you intend to pursue graduate studies in your discipline, you should consult a departmental adviser regarding the appropriate selection of courses in your field.

13.6.4.2 Minor and Minor Concentration Programs

In addition to the liberal, major, and honours degree programs, as a student in the Faculty of Science, you may select a minor or approved minor concentration program. These are coherent sequences of courses in a given discipline or interdisciplinary area that may be taken in addition to the courses required for the degree program.

Science minors consist of up to 24 credits.

Arts minor concentrations consist of 18 credits.

A minimum of 18 new credits must be completed in the Minor or Minor concentration.

For a list of "Minor Programs," see [section 13.10.2: Minor Programs](#); for minor concentrations that are approved for Science students, see [section 13.10.6: Faculty of Arts Major and Minor Concentration Programs Available to Science Students](#).

13.6.4.3 Other Second Programs

In addition to a major or honours program, you may pursue a second major or honours program, or an Arts major concentration program. A minimum of 36 new credits must be completed in the second program.

13.6.4.4 Concurrent B.Sc. and B.Ed. Program

The Concurrent B.Sc. and B.Ed. program described in [section 13.13.34: Science or Mathematics for Teachers](#) is designed to provide you with the opportunity to obtain both a B.Sc. and a B.Ed. after a minimum of 135 credits of study.



Note: The Concurrent B.Sc. and B.Ed. program is no longer accepting new students as of Fall 2011.

For more information, see the [B.Sc. and B.Ed. website](#) or contact Pete Barry, email: pete.barry@mcgill.ca.

13.6.4.5 Internship Year in Science (IYS)

All B.Sc. programs can include an internship component. For more details, students should refer to [section 13.12.1: Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#), [section 13.10.5: Internship Programs – Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#), and www.mcgill.ca/science/internships-field/internships.

13.6.4.6 McGill School of Environment

The Faculty of Science is one of the four faculties in partnership with the McGill School of Environment. For more information, see *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment*.

13.6.5 Course Requirements

All required and complementary courses used to fulfil program requirements, including the basic Science requirements, must be completed with a grade of C or better. If you fail to obtain a Satisfactory grade in a required course, you must either pass the supplemental examination in the course or do additional work for a supplemental grade, if these options are available, or repeat the course. Course substitution will be allowed only in special cases; you should consult your academic adviser.

Normally, you are permitted to repeat a failed course only once. (Failure is considered to be a grade of less than C or the administrative failures of J and KF.) If a required course is failed a second time, you must appeal to the Director of Advising Services for permission to take the course a third time. If permission is denied by the Director of Advising Services and/or by the Committee on Student Standing, on appeal, you must withdraw from the program. If the failed course is a complementary course required by the program, you may choose to replace it with another appropriate complementary course. If you choose to substitute another complementary course for a complementary course in which a D was received, credit for the first course will still be given, but as an elective. If you repeat a required course in which a D was received, credit will be given only once.

Full details of the course requirements for all programs offered are given in each unit's section together with the locations of departmental advisory offices, program directors, and telephone numbers should further information be required.

13.6.5.1 Course Overlap

You will not receive additional credit towards your degree for any course that overlaps in content with a course for which you have already received credit at McGill, at another university, at CEGEP, or for Advanced Placement, Advanced Level, International Baccalaureate, or French Baccalaureate results. It is your responsibility to consult the Science Office for Undergraduate Student Advising (SOUSA) or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about advanced standing credits and McGill course exemptions: www.mcgill.ca/students/transfercredit.

Sometimes the same course is offered by two different departments. Such courses are called “double-prefix” courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and the Physics students take PHYS XYZ. If a double-prefix course is offered by different departments in alternate years, you may take whichever course best fits your schedule.

Credit for computer and statistics courses offered by faculties other than Science requires the permission of the Director of Advising Services and will be granted only under exceptional circumstances.

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for ONLY ONE of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, PSYC 204, SOCI 350.
- Credit will be given for ONLY ONE of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461 with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- If you have already received credit for MATH 324 or MATH 357, you will NOT receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, you must consult a program adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which you have already received credit, credit for the 500-level course will not be allowed.
- Credit for statistics courses offered by faculties other than Arts and Science requires the permission of the Director of Advising Services, Science, except for students in the B.Sc. Major in Environment, who may take required statistics courses in the Faculty of Agricultural and Environmental Sciences necessary to satisfy their program requirements.
- PSYC 204 may not be taken if a grade of 75% or better was received in an equivalent course completed at CEGEP.

13.6.5.2 Courses Outside the Faculties of Arts and Science

As a student in the Faculty of Science, you should consult the statement of regulations for taking courses outside the Faculties of Arts and of Science (see below). A list of approved/not-approved courses in other faculties is posted on the SOUSA website (www.mcgill.ca/science/student/continuingstudents/bsc/outside). You may take courses on the approved list and may not, under any circumstances, take courses on the not-approved list for credit. Requests for permission to take courses that are not on either list should be addressed to the Director of Advising Services.

The regulations are as follows:

- You may take only 6 credits per year, up to 18 credits in all, of courses outside the Faculties of Arts and of Science.
- Courses offered “in the Faculty of Science” or “in the Faculty of Arts” are found under *Programs, Courses and University Regulations > All Courses* (available at www.mcgill.ca/study) when filtered by “Faculty of Science” or by “Faculty of Arts.”
- Courses in other faculties that are considered as taught by Science (e.g., BIOT, EXMD, and PHAR) are so designated as offered by the “Faculty of Science” under *Programs, Courses and University Regulations > All Courses* (available at www.mcgill.ca/study).
- Courses in Music are considered as outside the Faculties of Arts and of Science, except MUAR courses, which are considered as Arts courses.
- All courses listed in the Religious Studies (RELG) section are considered as courses in Arts and Science except for courses restricted to B.Th. or S.T.M. students and courses that require permission of the Chair of the B.Th. Committee.
- Students should consult the list of restricted courses outside of the Faculties of Arts and of Science on the SOUSA website (www.mcgill.ca/science/student).
- You must have the necessary prerequisites and permission of the instructor for such courses.
- Credit for computer and statistics courses offered by faculties other than Arts and Science requires the permission of the Director of Advising Services and will be granted only under exceptional circumstances.
- If you use Minerva to register for a course, and it exceeds the specified limitations or it is not approved, the course will be flagged for no credit after the course change period.
- Credit will not be given for any “how to” courses offered by other faculties that are intended to provide you with only practical or professional training in specific applied areas. Examples include courses that teach the use of certain computer packages (databases, spreadsheets, etc.) or computer languages (SQL, COBOL, FORTRAN, etc.), machine shop or electronic shop courses, technical drawing courses, and professional practice courses.
- As a student in the **McGill School of Environment**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study.
- As a student in the **Major in Software Engineering**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study.
- As a student in the B.Sc. Liberal Program taking a **Major Concentration in Music**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study, up to a maximum of 36 Music credits.
- If you registered in the **Minor in Management before September 2007**, you may take 21 credits of courses outside the Faculties of Arts and of Science.
- The 18-credit limit applies to students taking the **Minor in Nutrition**; equivalent courses in Science should be taken instead of courses in the Faculty of Agricultural and Environmental Sciences.

13.6.5.3 Correspondence, Distance Education, or Web-based Courses

As a Science student, you may obtain transfer credit for correspondence, distance education, or web-based courses if you receive prior approval from the appropriate McGill department for the course content **and** prior approval from the Director of Advising Services, Science, for the method of delivery and evaluation. Courses taught through distance education from institutions other than McGill will only be considered for transfer credits under the following conditions:

- The course is given by a government-accredited, degree-granting institution acceptable to McGill.
- The course counts for credit toward degrees granted at the institution giving the course.
- The combined total of regular course credits and distance education course credits do not exceed the permitted maximum number of credits per term according to Faculty regulations.
- Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it.

13.6.5.4 Courses in English as a Second Language (ESL)

ESL courses are only open to students whose primary language is not English and who have studied for fewer than five years in English-language secondary institutions. As a student in the B.Sc., you may take a maximum of 12 credits, including academic writing courses for non-anglophones, from the list of ESL courses published at www.mcgill.ca/science/student/continuingstudents/bsc/outside.

13.6.5.5 Registration for First-Year Seminars

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than is available in large introductory courses. These seminars endeavour to teach the latest scholarly developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis. The maximum number of students in any seminar is 25, although some are limited to even fewer than that.

You may take only one First-Year Seminar. If you register for more than one, you will be obliged to withdraw from all but one of them. Please consult the departmental listings for course descriptions and availability.

First-Year Seminars

CHEM 199	FYS: Why Chemistry?
EPSC 199	FYS: Earth & Planetary Exploration
PSYC 199	FYS: Mind-Body Medicine
PSYT 199	FYS: Mental Illness and the Brain

The First-Year Seminars offered by the Faculty of Arts are also open to Science students. For a complete listing, please consult *Programs, Courses and University Regulations* > *Faculty of Arts* > *Undergraduate* > *Academic Programs* > [section 3.10.1: First-Year Seminars](#).

13.6.5.6 Course Credit Weight

The credit assigned to a particular course should reflect the amount of effort it demands of you. Normally, one credit will represent three hours total work per week for one term—including a combination of lecture hours, other contact hours, such as laboratory periods, tutorials, and problem periods, as well as personal study time.

13.7 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult an academic adviser in your proposed department of study to obtain advice and approval of your course selection. Quebec students with a Diploma of Collegial Studies in Science have normally taken the equivalent of, and are therefore exempt from, the 100-level basic science courses in Biology, Chemistry, Mathematics, and Physics. Such students may also be exempt from some 200-level courses. If you are a student with satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests, you may also be exempt from some or all of the Science Freshman courses. To facilitate program planning, you must present your transcript(s) and letter of admission. For a detailed description of advising and registration procedures, you should refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.11: Undergraduate Advising](#), to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.3: Registration](#), and to the website for newly admitted undergraduate students at www.mcgill.ca/newstudents, as well as to the information posted on the SOUSA website at www.mcgill.ca/science/student/newstudents/u1, and the departmental websites.

If you need 97–120 credits to complete your degree requirements, you will normally be registered in a Freshman program until you complete your first year. You must consult a SOUSA adviser in the Science Office for Undergraduate Student Advising to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures as a Freshman student, you should refer to the website for newly admitted undergraduate students at www.mcgill.ca/newstudents, and to the information on the SOUSA website at www.mcgill.ca/science/student/newstudents/u0.

Advising for all returning students takes place in March for the upcoming academic year. For more information, you should refer to the information on the SOUSA website, www.mcgill.ca/science/student/continuingstudents.

13.8 Freshman Interest Groups

Freshman Interest Groups (FIGs) are groups of approximately 15 U0 students and U1 students in their first semester, in the B.Sc. or B.A. & Sc., led by a professor in the Faculty of Science or Faculty of Medicine and an upper-year undergraduate student. They meet once every two weeks in the Fall semester to discuss a wide range of topics, such as science in the news, program choices, undergraduate research opportunities, or just aspects of life in Montreal. The purpose of a FIG is to ease the transition to McGill and Montreal and to provide you an opportunity to interact with a professor and with other U0 students in a small group. FIGs carry no credit and there is no charge. For more information and to see how to register, refer to www.mcgill.ca/science/student/fig.

13.9 Examinations

Students should refer to *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.6: Examinations: General Information](#) for information about final examinations and deferred examinations. Note that for the Faculty of Science, *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > [section 1.6.7.1: Final Examinations: University Regulations Concerning Final Examinations](#) applies to courses up to and including the 500 level.

The exam schedules are posted on the McGill website, www.mcgill.ca/students/exams, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

13.10 Overview of Programs Offered

Programs Offered

section 13.10.1: Bachelor of Science Program Groups, which may include Liberal Program – Core Science Components, Major Programs, Joint Major Programs, Honours Programs, and Joint Honours Programs

section 13.10.2: Minor Programs

section 13.6.4.4: Concurrent B.Sc. and B.Ed. Program (Note: The Concurrent B.Sc. and B.Ed. program is no longer accepting new students as of Fall 2011.)

section 13.10.4: Bachelor of Arts and Science

section 13.6.4.5: Internship Year in Science (IYS)

section 13.12: Science Internships and Field Studies

section 13.10.6: Faculty of Arts Major and Minor Concentration Programs Available to Science Students

13.10.1 Bachelor of Science Program Groups

Science students admitted after September 2009 are limited to choosing liberal, majors, or honours programs within the Science group to which they were admitted, but may continue to choose freely from all available minor programs. Students pursuing a Liberal Science Program – Core Science Component (CSC) may also select a second CSC from any group. See **section 13.6.4.1: Liberal, Major, and Honours Programs**.

The groups within the B.Sc. are:

- Biological, Biomedical & Life Sciences
- Microbiology & Immunology
- Neuroscience
- Physical, Earth, Math & Computer Science
- Concurrent B.Sc./B.Ed. (Note that as of September 2011, no new students are being admitted to this group.)

For a list of specific programs in each group, see:

- **section 13.10.1.1: Biological, Biomedical & Life Sciences Group**
- **section 13.10.1.2: Microbiology and Immunology Group**
- **section 13.10.1.3: Neuroscience Group**
- **section 13.10.1.4: Physical, Earth, Math & Computer Science Group**
- **section 13.10.3: Concurrent B.Sc. and B.Ed. Program (Science or Mathematics for Teachers)** (Note that as of September 2011, no new students are being admitted to this group.)

To change to a major or honours program in another Science group, students must make an Intra-Faculty Transfer application.

See: www.mcgill.ca/science/student/general/transfer.

13.10.1.1 Biological, Biomedical & Life Sciences Group

13.10.1.1.1 Liberal Program – Core Science Components

- Anatomy and Cell Biology: **section 13.13.2.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Anatomy and Cell Biology (48 credits)**
- Biochemistry: **section 13.13.4.5: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biochemistry (47 credits)**
- Biology: **section 13.13.5.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biology (47 credits)**
- Physiology: **section 13.13.30.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physiology (50 credits)**
- Psychology: **section 13.13.32.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Psychology (45 credits)**

13.10.1.1.2 Major Programs

- Anatomy and Cell Biology: **section 13.13.2.5: Bachelor of Science (B.Sc.) - Major Anatomy and Cell Biology (67 credits)**
- Biochemistry: **section 13.13.4.6: Bachelor of Science (B.Sc.) - Major Biochemistry (67 credits)**
- Biology: **section 13.13.5.8: Bachelor of Science (B.Sc.) - Major Biology (59 credits)**
- Biology – Quantitative Biology: **section 13.13.5.9: Bachelor of Science (B.Sc.) - Major Biology - Quantitative Biology (73 credits)**
- Pharmacology: **section 13.13.28.5: Bachelor of Science (B.Sc.) - Major Pharmacology (65 credits)**

- Physiology: [section 13.13.30.5: Bachelor of Science \(B.Sc.\) - Major Physiology \(65 credits\)](#)
- Psychology: [section 13.13.32.8: Bachelor of Science \(B.Sc.\) - Major Psychology \(54 credits\)](#)

13.10.1.13 Joint Major Programs

- Biology and Mathematics: [section 13.13.5.10: Bachelor of Science \(B.Sc.\) - Major Biology and Mathematics \(76 credits\)](#)
- Computer Science and Biology: [section 13.13.9.11: Bachelor of Science \(B.Sc.\) - Major Computer Science and Biology \(73 credits\)](#)
- Physiology and Mathematics: [section 13.13.30.6: Bachelor of Science \(B.Sc.\) - Major Physiology and Mathematics \(77 credits\)](#)
- Physiology and Physics: [section 13.13.30.7: Bachelor of Science \(B.Sc.\) - Major Physiology and Physics \(80 credits\)](#)

13.10.1.14 Honours Programs

- Anatomy and Cell Biology: [section 13.13.2.6: Bachelor of Science \(B.Sc.\) - Honours Anatomy and Cell Biology \(73 credits\)](#)
- Biochemistry: [section 13.13.4.7: Bachelor of Science \(B.Sc.\) - Honours Biochemistry \(76 credits\)](#)
- Biology: [section 13.13.5.11: Bachelor of Science \(B.Sc.\) - Honours Biology \(75 credits\)](#)
- Pharmacology – application required, see departmental section for information: [section 13.13.28.6: Bachelor of Science \(B.Sc.\) - Honours Pharmacology \(74 credits\)](#)
- Physiology: [section 13.13.30.8: Bachelor of Science \(B.Sc.\) - Honours Physiology \(75 credits\)](#)
- Psychology: [section 13.13.32.9: Bachelor of Science \(B.Sc.\) - Honours Psychology \(60 credits\)](#)

13.10.1.2 Microbiology and Immunology Group

13.10.1.2.1 Liberal Program – Core Science Component

- Microbiology and Immunology – application required, see [section 13.13.22: Microbiology and Immunology \(MIMM\)](#) for information, and [section 13.13.22.4: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Microbiology and Immunology \(49 credits\)](#)

13.10.1.2.2 Major Program

- Microbiology and Immunology – application required, see [section 13.13.22: Microbiology and Immunology \(MIMM\)](#) for information, and [section 13.13.22.5: Bachelor of Science \(B.Sc.\) - Major Microbiology and Immunology \(68 credits\)](#)

13.10.1.2.3 Honours Programs

- Immunology (Interdepartmental) – application required, see [section 13.13.17: Immunology](#) for information, and [section 13.13.17.3: Bachelor of Science \(B.Sc.\) - Honours Immunology \(Interdepartmental\) \(75 credits\)](#)
- Microbiology and Immunology – application required, see [section 13.13.22: Microbiology and Immunology \(MIMM\)](#) for information, and [section 13.13.22.6: Bachelor of Science \(B.Sc.\) - Honours Microbiology and Immunology \(74 credits\)](#)

13.10.1.3 Neuroscience Group

13.10.1.3.1 Major Program

- Neuroscience – application required, see [section 13.13.25: Neuroscience](#) for information, and [section 13.13.25.4: Bachelor of Science \(B.Sc.\) - Major Neuroscience \(65 credits\)](#)

13.10.1.3.2 Honours Program

- Neuroscience – application required, see [section 13.13.25: Neuroscience](#) for information, and [section 13.13.25.5: Bachelor of Science \(B.Sc.\) - Honours Neuroscience \(74 credits\)](#)

13.10.1.4 Physical, Earth, Math & Computer Science Group

13.10.1.4.1 Liberal Program – Core Science Components

- Atmospheric Science: [section 13.13.3.5: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Atmospheric and Oceanic Sciences \(48 credits\)](#)
- Chemistry – Biological option: [section 13.13.7.7: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Chemistry - Biological \(47 credits\)](#)
- Chemistry – General option: [section 13.13.7.8: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Chemistry - General \(49 credits\)](#)
- Chemistry – Physical option: [section 13.13.7.9: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Chemistry - Physical \(47 credits\)](#)
- Computer Science: [section 13.13.9.8: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Computer Science \(45 credits\)](#)
- Earth and Planetary Sciences: [section 13.13.10.6: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Earth and Planetary Sciences \(45 credits\)](#)

- Geography: [section 13.13.16.7: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Geography \(49 credits\)](#)
- Mathematics: [section 13.13.21.7: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Mathematics \(45 credits\)](#)
- Physics: [section 13.13.29.8: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Physics \(48 credits\)](#)
- Software Engineering: [section 13.13.9.9: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Software Engineering \(49 credits\)](#)
- Statistics: [section 13.13.21.8: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Statistics \(45 credits\)](#)

13.10.142 Major Programs

- Atmospheric Science: [section 13.13.3.6: Bachelor of Science \(B.Sc.\) - Major Atmospheric Science \(61 credits\)](#)
- Chemistry: [section 13.13.7.10: Bachelor of Science \(B.Sc.\) - Major Chemistry \(59 credits\)](#)
- Chemistry – Atmosphere and Environment option: [section 13.13.7.11: Bachelor of Science \(B.Sc.\) - Major Chemistry - Atmosphere and Environment \(63 credits\)](#)
- Chemistry – Bio-organic option: [section 13.13.7.12: Bachelor of Science \(B.Sc.\) - Major Chemistry - Bio-organic \(63 credits\)](#)
- Chemistry – Materials option: [section 13.13.7.13: Bachelor of Science \(B.Sc.\) - Major Chemistry - Materials \(62 credits\)](#)
- Computer Science: [section 13.13.9.10: Bachelor of Science \(B.Sc.\) - Major Computer Science \(63 credits\)](#)
- Computer Science – Computer Games option: [section 13.13.9.12: Bachelor of Science \(B.Sc.\) - Major Computer Science - Computer Games \(67 credits\)](#)
- Earth and Planetary Sciences: [section 13.13.10.7: Bachelor of Science \(B.Sc.\) - Major Earth and Planetary Sciences \(66 credits\)](#)
- Earth System Science: [section 13.13.11.4: Bachelor of Science \(B.Sc.\) - Major Earth System Science \(57 credits\)](#)
- Environment – Atmospheric Environment and Air Quality domain: [section 13.13.12.4: Bachelor of Science \(B.Sc.\) - Major Environment - Atmospheric Environment and Air Quality \(60 credits\)](#)
- Environment – Biodiversity and Conservation domain: [section 13.13.12.5: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Biodiversity and Conservation \(63 credits\)](#)
- Environment – Earth Sciences and Economics domain: [section 13.13.12.6: Bachelor of Science \(B.Sc.\) - Major Environment - Earth Sciences and Economics \(66 credits\)](#)
- Environment – Ecological Determinants of Health domain – Cellular: [section 13.13.12.7: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Ecological Determinants of Health - Cellular \(63 credits\)](#)
- Environment – Ecological Determinants of Health domain – Population: [section 13.13.12.8: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Ecological Determinants of Health - Population \(63 credits\)](#)
- Environment – Environmetrics domain: [section 13.13.12.9: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Environmetrics \(63 credits\)](#)
- Environment – Food Production and Environment domain: [section 13.13.12.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Food Production and Environment \(63 credits\)](#)
- Environment – Land Surface Processes and Environmental Change domain: [section 13.13.12.11: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Land Surface Processes and Environmental Change \(63 credits\)](#)
- Environment – Renewable Resource Management domain: [section 13.13.12.12: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Renewable Resource Management \(63 credits\)](#)
- Environment – Water Environments and Ecosystems domain – Biological: [section 13.13.12.13: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Water Environments and Ecosystems - Biological \(60 credits\)](#)
- Environment – Water Environments and Ecosystems domain – Physical: [section 13.13.12.14: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Water Environments and Ecosystems - Physical \(63 credits\)](#)
- Geography: [section 13.13.16.8: Bachelor of Science \(B.Sc.\) - Major Geography \(58 credits\)](#)
- Mathematics: [section 13.13.21.9: Bachelor of Science \(B.Sc.\) - Major Mathematics \(54 credits\)](#)
- Physics: [section 13.13.29.9: Bachelor of Science \(B.Sc.\) - Major Physics \(60 credits\)](#)
- Software Engineering: [section 13.13.9.13: Bachelor of Science \(B.Sc.\) - Major Software Engineering \(63 credits\)](#)

13.10.143 Joint Major Programs

- Atmospheric Science and Physics: [section 13.13.3.7: Bachelor of Science \(B.Sc.\) - Major Atmospheric Science and Physics \(67 credits\)](#)
- Biology and Mathematics: [section 13.13.5.10: Bachelor of Science \(B.Sc.\) - Major Biology and Mathematics \(76 credits\)](#)
- Computer Science and Biology: [section 13.13.9.11: Bachelor of Science \(B.Sc.\) - Major Computer Science and Biology \(73 credits\)](#)
- Mathematics and Computer Science – see Mathematics and Statistics: [section 13.13.21.10: Bachelor of Science \(B.Sc.\) - Major Mathematics and Computer Science \(72 credits\)](#)
- Physics and Computer Science – see Physics: [section 13.13.29.11: Bachelor of Science \(B.Sc.\) - Major Physics and Computer Science \(66 credits\)](#)
- Physics and Geophysics: [section 13.13.29.10: Bachelor of Science \(B.Sc.\) - Major Physics and Geophysics \(69 credits\)](#)
- Physiology and Mathematics: [section 13.13.30.6: Bachelor of Science \(B.Sc.\) - Major Physiology and Mathematics \(77 credits\)](#)
- Physiology and Physics: [section 13.13.30.7: Bachelor of Science \(B.Sc.\) - Major Physiology and Physics \(80 credits\)](#)
- Statistics and Computer Science: [section 13.13.21.11: Bachelor of Science \(B.Sc.\) - Major Statistics and Computer Science \(72 credits\)](#)

13.10.144 Honours Programs

- Applied Mathematics: [section 13.13.21.12: Bachelor of Science \(B.Sc.\) - Honours Applied Mathematics \(60 credits\)](#)
- Atmospheric Science: [section 13.13.3.8: Bachelor of Science \(B.Sc.\) - Honours Atmospheric Science \(73 credits\)](#)
- Chemistry: [section 13.13.7.14: Bachelor of Science \(B.Sc.\) - Honours Chemistry \(71 credits\)](#)
- Chemistry – Bio-organic option: [section 13.13.7.16: Bachelor of Science \(B.Sc.\) - Honours Chemistry - Bio-organic \(75 credits\)](#)
- Chemistry – Atmosphere and Environment option: [section 13.13.7.15: Bachelor of Science \(B.Sc.\) - Honours Chemistry - Atmosphere and Environment \(75 credits\)](#)
- Chemistry – Materials: [section 13.13.7.17: Bachelor of Science \(B.Sc.\) - Honours Chemistry - Materials \(74 credits\)](#)
- Computer Science: [section 13.13.9.14: Bachelor of Science \(B.Sc.\) - Honours Computer Science \(75 credits\)](#)
- Earth Sciences: [section 13.13.10.8: Bachelor of Science \(B.Sc.\) - Honours Earth Sciences \(75 credits\)](#)
- Earth System Science: [section 13.13.11.5: Bachelor of Science \(B.Sc.\) - Honours Earth System Science \(66 credits\)](#)
- Environment: [section 13.13.12.15: Bachelor of Science \(B.Sc.\) - Honours Environment \(72 credits\)](#)
- Geography: [section 13.13.16.9: Bachelor of Science \(B.Sc.\) - Honours Geography \(66 credits\)](#)
- Mathematics: [section 13.13.21.13: Bachelor of Science \(B.Sc.\) - Honours Mathematics \(60 credits\)](#)
- Physics: [section 13.13.29.12: Bachelor of Science \(B.Sc.\) - Honours Physics \(78 credits\)](#)
- Planetary Sciences: [section 13.13.10.9: Bachelor of Science \(B.Sc.\) - Honours Planetary Sciences \(81 credits\)](#)
- Probability and Statistics: [section 13.13.21.15: Bachelor of Science \(B.Sc.\) - Honours Probability and Statistics \(64 credits\)](#)
- Software Engineering: [section 13.13.9.15: Bachelor of Science \(B.Sc.\) - Honours Software Engineering \(75 credits\)](#)

13.10.145 Joint Honours Programs

- Mathematics and Computer Science: [section 13.13.21.14: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Computer Science \(75 credits\)](#)
- Mathematics and Physics: [section 13.13.29.13: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Physics \(81 credits\)](#)
- Physics and Chemistry: [section 13.13.29.14: Bachelor of Science \(B.Sc.\) - Honours Physics and Chemistry \(80 credits\)](#)
- Statistics and Computer Science: [section 13.13.21.16: Bachelor of Science \(B.Sc.\) - Honours Statistics and Computer Science \(79 credits\)](#)

13.10.2 Minor Programs

Minor Programs

Atmospheric Science, [section 13.13.3.4: Bachelor of Science \(B.Sc.\) - Minor Atmospheric Science \(18 credits\)](#)

Biology, [section 13.13.5.6: Bachelor of Science \(B.Sc.\) - Minor Biology \(25 credits\)](#)

Biotechnology, [section 13.13.6.5: Bachelor of Science \(B.Sc.\) - Minor Biotechnology \(for Science Students\) \(24 credits\)](#)

Chemical Engineering, [section 13.13.7.6: Bachelor of Science \(B.Sc.\) - Minor Chemical Engineering \(24 credits\)](#)

Chemistry, [section 13.13.7.5: Bachelor of Science \(B.Sc.\) - Minor Chemistry \(18 credits\)](#)

Cognitive Science, [section 13.13.8.2: Bachelor of Science \(B.Sc.\) - Minor Cognitive Science \(24 credits\)](#)

Computer Science, [section 13.13.9.7: Bachelor of Science \(B.Sc.\) - Minor Computer Science \(24 credits\)](#)

Earth System Science, [section 13.13.11.3: Bachelor of Science - Minor Earth System Science \(18 credits\)](#)

Education for Science Students, [section 13.13.34.4: Bachelor of Science \(B.Sc.\) - Minor Education for Science Students \(18 credits\)](#)

Electrical Engineering, [section 13.13.29.7: Bachelor of Science \(B.Sc.\) - Minor Electrical Engineering \(24 credits\)](#)

Environment, [section 13.13.12.3: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Minor Environment \(18 credits\)](#)

Field Study, [section 13.13.14.1: Field Studies - Minor Field Studies \(18 credits\)](#)

Finance for Non-Management Students, [section 13.13.20.1: Minor Finance \(For Non-Management Students\) \(18 credits\)](#)

General Science, [section 13.13.15.3: Bachelor of Science \(B.Sc.\) - Minor General Science \(18 credits\)](#)

Geochemistry, [section 13.13.10.5: Bachelor of Science \(B.Sc.\) - Minor Geochemistry \(18 credits\)](#)

Geography, [section 13.13.16.5: Bachelor of Science \(B.Sc.\) - Minor Geography \(18 credits\)](#)

Geographic Information Systems and Remote Sensing, [section 13.13.16.6: Bachelor of Science \(B.Sc.\) - Minor Geographic Information Systems and Remote Sensing \(18 credits\)](#)

Geology, [section 13.13.10.4: Bachelor of Science \(B.Sc.\) - Minor Geology \(18 credits\)](#) (previously named Earth and Planetary Sciences)

Minor Programs

Human Nutrition – see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Agricultural and Environmental Sciences > Undergraduate > Academic Programs > [section 2.6.6.9: Minor Human Nutrition \(24 credits\)](#)*

Interdisciplinary Life Sciences, [section 13.13.18.3: Bachelor of Science \(B.Sc.\) - Minor Interdisciplinary Life Sciences \(24 credits\)](#)

Kinesiology, [section 13.13.19.3: Bachelor of Science \(B.Sc.\) - Minor Kinesiology \(24 credits\)](#)

Management for Non-Management Students, [section 13.13.20.2: Minor Management \(For Non-Management Students\) \(18 credits\)](#)

Marketing for Non-Management Students, [section 13.13.20.3: Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)

Mathematics, [section 13.13.21.5: Bachelor of Science \(B.Sc.\) - Minor Mathematics \(24 credits\)](#)

Musical Applications of Technology – see *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > [section 11.8.1.10: Minor Musical Applications of Technology \(18 credits\)](#)*

Musical Science and Technology – see *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music > Undergraduate > [section 11.8.1.11: Minor Musical Science and Technology \(18 credits\)](#)*

Natural History, [section 13.13.33.4: Bachelor of Science \(B.Sc.\) - Minor Natural History \(24 credits\)](#)

Neuroscience, [section 13.13.25.3: Bachelor of Science \(B.Sc.\) - Minor Neuroscience \(25 credits\)](#)

Operations Management for Non-Management Students, [section 13.13.20.4: Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)

Pharmacology, [section 13.13.28.4: Bachelor of Science \(B.Sc.\) - Minor Pharmacology \(24 credits\)](#)

Physics, [section 13.13.29.6: Bachelor of Science \(B.Sc.\) - Minor Physics \(18 credits\)](#)

Psychology, [section 13.13.32.6: Bachelor of Science \(B.Sc.\) - Minor Psychology \(24 credits\)](#)

Statistics, [section 13.13.21.6: Bachelor of Science \(B.Sc.\) - Minor Statistics \(24 credits\)](#)

Technological Entrepreneurship for Science Students – application required, see *program listing: [section 13.13.35.3: Bachelor of Science \(B.Sc.\) - Minor Technological Entrepreneurship for Science Students \(18 credits\)](#)* (Please note that this Minor is currently under review.)

**Notes:**

1. The Minor in Chemical Engineering is only available to students in Chemistry.
2. The Minor in Electrical Engineering is only available to students in the Major program in Physics.
3. The Minor in General Science is only available to students in B.Sc. Liberal programs.

13.10.3 Concurrent B.Sc. and B.Ed. Program (Science or Mathematics for Teachers)

Note: The Concurrent B.Sc. and B.Ed. program is no longer accepting new students as of Fall 2011.

Concurrent B.Sc. and B.Ed. Programs (see [section 13.13.34: Science or Mathematics for Teachers](#))

Major in Mathematics for Teachers – [section 13.13.34.13: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Mathematics for Teachers \(135 credits\)](#)

Major Concentration in Biology with a Minor in Chemistry for Teachers – [section 13.13.34.5: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers \(135 credits\)](#) or [section 13.13.34.6: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers \(135 credits\)](#)

Major Concentration in Biology with a Minor in Physics for Teachers – [section 13.13.34.7: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers \(135 credits\)](#) or [section 13.13.34.8: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Biology - Organismal with Minor Physics for Teachers \(135 credits\)](#)

Major Concentration in Chemistry with a Minor in Biology for Teachers – [section 13.13.34.9: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Chemistry with Minor Biology for Teachers \(135 credits\)](#)

Major Concentration in Chemistry with a Minor in Physics for Teachers – [section 13.13.34.10: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Chemistry with Minor Physics for Teachers \(135 credits\)](#)

Major Concentration in Physics with a Minor in Biology for Teachers – [section 13.13.34.11: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Physics with Minor Biology for Teachers \(135 credits\)](#)

Major Concentration in Physics with a Minor in Chemistry for Teachers – [section 13.13.34.12: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Physics with Minor Chemistry for Teachers \(135 credits\)](#)

13.10.4 Bachelor of Arts and Science

Please see *Programs, Courses and University Regulations > Faculties & Schools > [Bachelor of Arts and Science](#)* for details.

13.10.5 Internship Programs – Industrial Practicum (IP) and Internship Year in Science (IYS)

The Faculty of Science offers an internship program which features the Industrial Practicum (4 months) and the Internship Year in Science (8, 12, 16 months). Participating in an internship offers you the chance to add a practical element to your studies, to solidify your career goals, to gain some valuable experience, and to earn money.

It will also give you the opportunity to enhance your degree: if you complete two IPs or participate in an IYS, the name of your program will change to include the word internship (e.g., Bachelor of Science – Internship Program – Biology).

To learn more about the Science internship programs, visit www.mcgill.ca/science/internships-field/internships.

13.10.6 Faculty of Arts Major and Minor Concentration Programs Available to Science Students

For more information, please see the relevant departmental entries under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > [Undergraduate](#)*.

13.10.6.1 Major Concentrations

Major Concentrations

African Studies, [section 3.10.4.5: Bachelor of Arts \(B.A.\) - Major Concentration African Studies \(36 credits\)](#)

Anthropology, [section 3.10.5.7: Bachelor of Arts \(B.A.\) - Major Concentration Anthropology \(36 credits\)](#)

Art History, [section 3.10.6.7: Bachelor of Arts \(B.A.\) - Major Concentration Art History \(36 credits\)](#)

Canadian Studies, [section 3.10.8.5: Bachelor of Arts \(B.A.\) - Major Concentration Canadian Studies \(36 credits\)](#)

Classics, [section 3.10.24.10: Bachelor of Arts \(B.A.\) - Major Concentration Classics \(36 credits\)](#)

East Asian Studies, [section 3.10.13.7: Bachelor of Arts \(B.A.\) - Major Concentration East Asian Studies \(36 credits\)](#)

Economics, [section 3.10.14.5: Bachelor of Arts \(B.A.\) - Major Concentration Economics \(36 credits\)](#)

English - Cultural Studies, [section 3.10.17.11: Bachelor of Arts \(B.A.\) - Major Concentration English - Cultural Studies \(36 credits\)](#)

English - Drama and Theatre, [section 3.10.17.10: Bachelor of Arts \(B.A.\) - Major Concentration English - Drama and Theatre \(36 credits\)](#)

English - Literature, [section 3.10.17.9: Bachelor of Arts \(B.A.\) - Major Concentration English - Literature \(36 credits\)](#)

Geography (Urban Systems), [section 3.10.23.8: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(Urban Systems\) \(36 credits\)](#)

German Language and Literature, [section 3.10.30.11: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Language and Literature \(36 credits\)](#)

German Literature and Culture, [section 3.10.30.12: Bachelor of Arts \(B.A.\) - Major Concentration German Studies - Literature and Culture \(36 credits\)](#)

German Studies, Contemporary, [section 3.10.30.13: Bachelor of Arts \(B.A.\) - Major Concentration Contemporary German Studies \(36 credits\)](#)

Hispanic Languages, [section 3.10.30.18: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Languages \(36 credits\)](#)

Hispanic Literature and Culture, [section 3.10.30.19: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies - Literature and Culture \(36 credits\)](#)

History, [section 3.10.24.5: Bachelor of Arts \(B.A.\) - Major Concentration History \(36 credits\)](#)

International Development Studies, [section 3.10.27.5: Bachelor of Arts \(B.A.\) - Major Concentration International Development Studies \(36 credits\)](#)

Italian Studies, [section 3.10.30.23: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)

Jewish Studies, [section 3.10.29.6: Bachelor of Arts \(B.A.\) - Major Concentration Jewish Studies \(36 credits\)](#)

Langue et littérature françaises - Études et pratiques littéraires, [section 3.10.22.12: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

Langue et littérature françaises - Traduction, [section 3.10.22.13: Baccalauréat ès Arts \(B.A.\) - Concentration majeure langue et littérature françaises - Traduction \(36 crédits\)](#)

Latin-American Studies, [section 3.10.31.5: Bachelor of Arts \(B.A.\) - Major Concentration Latin American Studies \(36 credits\)](#)

Linguistics, [section 3.10.33.7: Bachelor of Arts \(B.A.\) - Major Concentration Linguistics \(36 credits\)](#)

Middle East Studies, [section 3.10.36.6: Bachelor of Arts \(B.A.\) - Major Concentration Middle East Studies \(36 credits\)](#)

Major Concentrations

Music (available to students in B.Sc. Liberal only), [section 3.10.37.7: Bachelor of Arts \(B.A.\) - Major Concentration Music \(36 credits\)](#)

North American Studies, [section 3.10.38.5: Bachelor of Arts \(B.A.\) - Major Concentration North American Studies \(36 credits\)](#)

Philosophy, [section 3.10.39.5: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy \(36 credits\)](#)

Philosophy and Western Religions, [section 3.10.40.5: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy and Western Religions \(36 credits\)](#)

Political Science, [section 3.10.41.14: Bachelor of Arts \(B.A.\) - Major Concentration Political Science \(36 credits\)](#)

Québec Studies, [section 3.10.43.6: Bachelor of Arts \(B.A.\) - Major Concentration Quebec Studies / La concentration Majeur en Études sur le Québec \(36 credits\)](#)

Russian, [section 3.10.30.28: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)

Scriptures and Interpretation – see Religious Studies, [section 3.10.44.8: Bachelor of Arts \(B.A.\) - Major Concentration Scriptures and Interpretations \(36 credits\)](#)

Sociology, [section 3.10.49.6: Bachelor of Arts \(B.A.\) - Major Concentration Sociology \(36 credits\)](#)

Women's Studies, [section 3.10.50.5: Bachelor of Arts \(B.A.\) - Major Concentration Women's Studies \(36 credits\)](#)

World Religions – see Religious Studies, [section 3.10.44.9: Bachelor of Arts \(B.A.\) - Major Concentration World Religions \(36 credits\)](#)

13.10.6.2 Minor Concentrations**Minor Concentrations**

African Studies, [section 3.10.4.4: Bachelor of Arts \(B.A.\) - Minor Concentration African Studies \(18 credits\)](#)

Anthropology, [section 3.10.5.6: Bachelor of Arts \(B.A.\) - Minor Concentration Anthropology \(18 credits\)](#)

Art History, [section 3.10.6.5: Bachelor of Arts \(B.A.\) - Minor Concentration Art History \(18 credits\)](#)

Canada/Québec – see Political Science, [section 3.10.41.7: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science: Canada/Québec \(18 credits\)](#)

Canadian Ethnic and Racial Studies, [section 3.10.7.4: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Ethnic and Racial Studies \(18 credits\)](#)

Canadian Studies, [section 3.10.8.4: Bachelor of Arts \(B.A.\) - Minor Concentration Canadian Studies \(18 credits\)](#)

Catholic Studies, [section 3.10.9.4: Bachelor of Arts \(B.A.\) - Minor Concentration Catholic Studies \(18 credits\)](#)

Classics, [section 3.10.24.8: Bachelor of Arts \(B.A.\) - Minor Concentration Classics \(18 credits\)](#)

Communication Studies – see Art History and Communication Studies, [section 3.10.6.6: Bachelor of Arts \(B.A.\) - Minor Concentration Communication Studies \(18 credits\)](#)

Comparative Politics – see Political Science, [section 3.10.41.8: Bachelor of Arts \(B.A.\) - Minor Concentration Comparative Politics \(18 credits\)](#)

East Asian Language and Literature, [section 3.10.13.4: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Language and Literature \(18 credits\)](#)

East Asian Cultural Studies, [section 3.10.13.5: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Cultural Studies \(18 credits\)](#)

East Asian Language, Supplementary, [section 3.10.13.6: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration East Asian Language \(18 credits\)](#)

Economics, [section 3.10.14.4: Bachelor of Arts \(B.A.\) - Minor Concentration Economics \(18 credits\)](#)

English – Cultural Studies, [section 3.10.17.8: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)

English – Drama and Theatre, [section 3.10.17.7: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)

English – Literature, [section 3.10.17.6: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)

Geographical Information Systems – see Geography, [section 3.10.23.5: Bachelor of Arts \(B.A.\) - Minor Concentration Geographic Information Systems \(18 credits\)](#)

Geography, [section 3.10.23.4: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(18 credits\)](#)

German Language, [section 3.10.30.8: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#)

German Literature, [section 3.10.30.9: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature \(18 credits\)](#)

German Literature and Culture in Translation, [section 3.10.30.10: Bachelor of Arts \(B.A.\) - Minor Concentration German Literature and Culture in Translation \(18 credits\)](#)

Hispanic Languages, [section 3.10.30.16: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Languages \(18 credits\)](#)

Hispanic Literature and Culture, [section 3.10.30.17: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Literature and Culture \(18 credits\)](#)

Minor Concentrations

History, [section 3.10.24.4: Bachelor of Arts \(B.A.\) - Minor Concentration History \(18 credits\)](#)

History and Philosophy of Science, [section 3.10.25.4: Bachelor of Arts \(B.A.\) - Minor Concentration History and Philosophy of Science \(18 credits\)](#)

International Development Studies, [section 3.10.27.4: Bachelor of Arts \(B.A.\) - Minor Concentration International Development Studies \(18 credits\)](#)

International Relations – see Political Science, [section 3.10.41.9: Bachelor of Arts \(B.A.\) - Minor Concentration International Relations \(18 credits\)](#)

Islamic Studies, [section 3.10.28.4: Bachelor of Arts \(B.A.\) - Minor Concentration Islamic Studies \(18 credits\)](#)

Italian Studies, [section 3.10.30.22: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#)

Jewish Law, [section 3.10.29.4: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Law \(18 credits\)](#)

Jewish Studies, [section 3.10.29.5: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Studies \(18 credits\)](#)

Langue et littérature françaises – Critique littéraire, [section 3.10.22.9: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Critique littéraire \(18 crédits\)](#)

Langue et littérature françaises – Études et pratiques littéraires, [section 3.10.22.7: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Études et pratiques littéraires \(18 crédits\)](#)

Langue et littérature françaises – Langue française, [section 3.10.22.5: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française \(18 crédits\)](#)

Langue et littérature françaises – Langue française et traduction, [section 3.10.22.6: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Langue française et traduction \(18 crédits\)](#)

Langue et littérature françaises – Traduction, [section 3.10.22.8: Baccalauréat ès Arts \(B.A.\) - Concentration mineure langue et littérature françaises - Traduction \(18 crédits\)](#)

Linguistics, [section 3.10.33.6: Bachelor of Arts \(B.A.\) - Minor Concentration Linguistics \(18 credits\)](#)

Middle East Studies, [section 3.10.36.4: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Studies \(18 credits\)](#)

Middle East Languages, [section 3.10.36.5: Bachelor of Arts \(B.A.\) - Minor Concentration Middle East Languages \(18 credits\)](#)

Music, [section 3.10.37.6: Bachelor of Arts \(B.A.\) - Minor Concentration Music \(18 credits\)](#)

North American Studies, [section 3.10.38.4: Bachelor of Arts \(B.A.\) - Minor Concentration North American Studies \(18 credits\)](#)

Philosophy, [section 3.10.39.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy \(18 credits\)](#)

Philosophy and Western Religions, [section 3.10.40.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy and Western Religions \(18 credits\)](#)

Political Science, [section 3.10.41.6: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science \(18 credits\)](#)

Political Economy – see Political Science, [section 3.10.41.10: Bachelor of Arts \(B.A.\) - Minor Concentration Political Economy \(18 credits\)](#)

Political Theory – see Political Science, [section 3.10.41.11: Bachelor of Arts \(B.A.\) - Minor Concentration Political Theory \(18 credits\)](#)

Politics, Law and Society – see Political Science, [section 3.10.41.12: Bachelor of Arts \(B.A.\) - Minor Concentration Politics, Law and Society \(18 credits\)](#)

Québec Studies, [section 3.10.43.5: Bachelor of Arts \(B.A.\) - Minor Concentration Quebec Studies / La concentration Mineur en Études sur le Québec \(18 crédits\)](#)

Religion and Globalization – see Religious Studies, [section 3.10.44.5: Bachelor of Arts \(B.A.\) - Minor Concentration Religion and Globalization \(18 credits\)](#)

Russian, [section 3.10.30.26: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 credits\)](#)

Russian Culture, [section 3.10.30.27: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 credits\)](#)

Scriptural Languages – see Religious Studies, [section 3.10.44.6: Bachelor of Arts \(B.A.\) - Minor Concentration Scriptural Languages \(18 credits\)](#)

Sexual Diversity Studies, [section 3.10.46.4: Bachelor of Arts \(B.A.\) - Minor Concentration Sexual Diversity Studies \(18 credits\)](#)

Social Studies of Medicine, [section 3.10.47.4: Bachelor of Arts \(B.A.\) - Minor Concentration Social Studies of Medicine \(18 credits\)](#)

Sociology, [section 3.10.49.5: Bachelor of Arts \(B.A.\) - Minor Concentration Sociology \(18 credits\)](#)

South Asia – see Political Science, [section 3.10.41.13: Bachelor of Arts \(B.A.\) - Minor Concentration South Asia \(18 credits\)](#)

World Cinemas, [section 3.10.51.4: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 credits\)](#)

World Religions – see Religious Studies, [section 3.10.44.7: Bachelor of Arts \(B.A.\) - Minor Concentration World Religions \(18 credits\)](#)

Women's Studies, [section 3.10.50.4: Bachelor of Arts \(B.A.\) - Minor Concentration Women's Studies \(18 credits\)](#)

13.11 Undergraduate Research Opportunities

Because McGill is a research-intensive university, research informs the curriculum. There are many opportunities for talented students to take part in research during their undergraduate studies, whether at McGill, in affiliated hospitals, at other universities, or in the field. Many of these are organized through formal courses or programs organized by the Faculty of Science or its departments. For more information, see the following:

- [section 13.11.1: Research Project Courses](#)
- [section 13.11.1.1: "396" Undergraduate Research Project Courses](#)
- [section 13.11.2: Undergraduate Student Research Awards](#) – NSERC USRA, NSERC Industrial USRA, SURA, FRSQ USRA
- [section 13.11.3: Undergraduate Research Conference](#)
- [section 13.11.4: Other opportunities](#)
- Dean's Multidisciplinary Undergraduate Research List – see description elsewhere in *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > *Graduation* > [section 1.9.3: Graduation Honours: Faculty of Science Dean's Multidisciplinary Undergraduate Research List](#)

The **Office for Undergraduate Research in Science (OURS)** coordinates several of the aforementioned programs, and can help students find out about other opportunities. Visit the OURS website at www.mcgill.ca/science/research/ours to find out more.

Because internships and field study programs may include a research component, please also see:

- [section 13.12.1: Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#)
- [section 13.12.2: Field Study and Study Abroad](#)

13.11.1 Research Project Courses

Departments offer a variety of research-based courses that allow you to perform research under the supervision of a McGill researcher for academic credit. Depending on the unit, courses featuring undergraduate research may bear names such as: majors project, honours project, advanced lab, independent research, technical project, independent study, or research project and seminar. For more information, see the research course list online at www.mcgill.ca/science/research/ours/researchcourses or browse the course listings at www.mcgill.ca/students/courses/calendars/keyword.

13.11.1.1 "396" Undergraduate Research Project Courses

"396" undergraduate research project courses are offered by most departments and schools—ANAT 396, ATOC 396, BIOC 396, BIOL 396, etc.—plus COGS 396 and NSCI 396. They are elective courses, which can be taken outside your own department, and can be taken after one term of undergraduate studies. Note that for Microbiology and Immunology, MIMM 396 is for *microbiology* projects whereas MIMM 397 is for *immunology*; otherwise, for all practical purposes MIMM 397 should be treated as a "396" course. There is also a BASC 396 course for B.A. & Sc. students.

Students can consult a list of past projects and currently available projects on the Science website at www.mcgill.ca/science/research/ours/396, or they can devise a new project in consultation with a McGill professor and submit the required paperwork online.

13.11.2 Undergraduate Student Research Awards

There are several award programs that fund undergraduate student research projects at McGill (and sometimes off-campus), usually in the summer. Please see the following:

- [section 13.11.2.1: NSERC Undergraduate Student Research Awards](#)
- [section 13.11.2.2: NSERC Industrial Undergraduate Student Research Awards](#)
- [section 13.11.2.3: SURA: Science Undergraduate Research Awards](#)
- [section 13.11.2.4: FRSQ Undergraduate Student Research Awards](#)

Please also consult the Office for Undergraduate Research in Science website at www.mcgill.ca/science/research/ours for any new programs that may have been added.

13.11.2.1 NSERC Undergraduate Student Research Awards

The Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Awards (NSERC USRA) in Universities program supports 16 consecutive weeks of paid full-time research under the supervision of a professor who holds an NSERC grant. It is an excellent way to prepare for graduate studies or a future career in science. This program is offered at other universities across Canada, and a travel allowance from NSERC is available.

To apply, students must first identify a proposed supervisor who holds an NSERC grant. Students should apply at the university where they wish to hold the award. Applicants must be Canadian citizens or Permanent Residents of Canada. See www.mcgill.ca/science/research/ours/nserc for more information.

13.11.2.2 NSERC Industrial Undergraduate Student Research Awards

In cooperation with a company, students can also apply for an Industrial NSERC Award to provide salary support and gain industrially relevant experience. Students apply for these awards through one or more companies (not through McGill). For more information on forms, student eligibility, and company eligibility, please visit the NSERC website www.nserc.ca and look for the *Industrial Undergraduate Student Research Awards*.

13.11.2.3 SURA: Science Undergraduate Research Awards

Science Undergraduate Research Awards—SURAs—are for both Canadian and international McGill students registered in a science undergraduate program. SURAs are broadly similar to the NSERC USRA; two differences are, on the student side, that *international students may apply*, and on the supervisor side, while they must still hold a research grant, the grant may be from one of the other funding agencies, namely CRC, NSERC, CIHR, SSHRC, FQRNT, or FRSQ (not only NSERC).

See www.mcgill.ca/science/research/ours/sura for details.

13.11.2.4 FRSQ Undergraduate Student Research Awards

This program is meant to stimulate interest in research on the part of students registered in an undergraduate program in Health Sciences or other disciplines offering specialization in health sciences, including social sciences, natural sciences, and engineering. For more information, see www.mcgill.ca/gps/funding/students-postdocs/students/frsq-usra.

13.11.3 Undergraduate Research Conference

Each fall, the Faculty of Science holds an Undergraduate Research Conference to celebrate the research accomplishments of our undergraduate students. The conference also includes a public lecture by a Nobel laureate or other luminary on a topic related to scientific discovery.

Students who wish to present their research posters should contact their departments in the preceding winter or summer, since *departments* nominate participants for the conference.

Everyone is welcome to attend. This is an excellent opportunity to see what McGill undergraduates undertake as research projects.

For more details and the date, please see www.mcgill.ca/science/research/ours/urc.

13.11.4 Other opportunities

Science internships and field study programs may have a research component or focus. Please see their descriptions under [section 13.10.5: Internship Programs – Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#) and [section 13.12.2: Field Study and Study Abroad](#) in this publication.

Individual departments and researchers offer many other research opportunities. These may be paid or unpaid, for academic credit or not for credit. Some of these opportunities are formal programs and are described in other sections of this publication ([section 13.11.1: Research Project Courses](#), [section 13.11.1.1: "396" Undergraduate Research Project Courses](#), and [section 13.11.2: Undergraduate Student Research Awards](#)) or on the Office for Undergraduate Research in Science website (www.mcgill.ca/science/research/ours); however, many opportunities arise as a result of students talking with their professors. For advice on approaching professors, and more generally on how to get involved in research, see www.mcgill.ca/science/research/ours/how.

In addition to opportunities available at McGill, there are several external opportunities at other institutions. Many of these are catalogued at www.mcgill.ca/science/research/ours/opportunities. You may also want to look for additional opportunities funded or offered by the relevant research agencies, institutions, and universities of interest: for example, a provincial cancer research society, a national science funding agency, or a national psychological association.

13.12 Science Internships and Field Studies

The *Science Internships & Field Studies Office* promotes field studies and internship opportunities to interested students seeking hands-on experience. The office coordinates the field study semesters offered through the Faculty of Science and provides internship opportunities to students who are in Science programs at McGill. Whether you decide to participate in a field study semester or apply classroom theory to practice, the *Science Internships & Field Studies Office* will offer you assistance in your decision.

13.12.1 Industrial Practicum (IP) and Internship Year in Science (IYS)

These programs are open to all Science undergraduate students. An internship is a career-related, professionally supervised, paid work term and done during your undergraduate degree in a field related to your studies. Internships may have a basis in research. To be eligible to apply:

- You must be a full-time undergraduate student in Science before and after the IP or the IYS is completed.
- You must have completed at least 27 credits and should have at least 12 credits remaining in your degree program.
- Your CGPA must be 2.7 or higher.
- International students are eligible to apply to all IYS positions (unless otherwise indicated in the job posting) and to summer IPs (provided the student has an off-campus work permit).

For more information on IP and IYS, please see [section 13.6.4.5: Internship Year in Science \(IYS\)](#) and www.mcgill.ca/science/internships-field/internships.

13.12.2 Field Study and Study Abroad

McGill's Field Study Semester programs (in Africa, Barbados, and Panama) are research-based, as are many shorter field courses offered by the Departments of Biology, Earth & Planetary Sciences, and Geography. See *Programs, Courses and University Regulations > Faculties & Schools > Field Studies > Undergraduate > section 8.1: Opportunities for Field Study and Study Abroad* and www.mcgill.ca/science/student/internships-field/field for more information about these programs and courses.

13.13 Academic Programs

What is a Major Program?

A major is a versatile, comprehensive primary area of study. Most major programs require about two-thirds of your total credits. With the remaining credits, you can choose electives, or you may want to use those additional credits to take a minor, which can be chosen from a wide variety of areas both within and outside Science.

What is an Honours Program?

Honours programs typically involve an even higher degree of specialization than majors, include supervised research, and require students to maintain a high academic standard. An honours program provides solid preparation for graduate school. With an honours program, you will have fewer elective credits.

What is a B.Sc. Liberal Program?

This is a flexible and modular program. You combine a core science component (CSC) in a Science discipline with a breadth component, which may be a minor from a wide variety of areas, a major concentration from the Faculty of Arts, or a second CSC from any group in Science. Consider the Liberal program if you do not want to overly specialize—plus, you will still have room left over for elective courses.

What about Joint Programs?

The Faculty of Science also has quite a few joint programs. These programs combine two different disciplines, which allow you to gain expertise in two fields.

What about Interdisciplinary Programs?

There are many ways to create interdisciplinary programs in the Faculty of Science. You can add a minor to a major or honours program, you can take a liberal program that contains both a core science component and a breadth component, or you can select an explicit interdisciplinary major. The Faculty of Science offers three such interdisciplinary programs: Earth System Science, Environment, and Neuroscience.

13.13.1 B.Sc. Freshman Program

If you need 97–120 credits (four years) to complete your degree requirements, you must register in the Science Freshman program, which is designed to provide the basic science foundation for your subsequent three-year Liberal, Major, or Honours program. For a detailed description of the Science Freshman program, you should consult [section 13.13.1.1: Bachelor of Science \(B.Sc.\) - Freshman Program \(30 credits\)](#) and the Science Freshman Student information available on the SOUSA website, www.mcgill.ca/science/student/newstudents/u0.

If you have completed the Diploma of Collegial Studies, Advanced Placement exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill placement examinations, you may receive exemption and/or credit for all or part of the basic science courses in biology, chemistry, mathematics, and physics. Similarly, if you have completed courses at other universities or colleges, you may receive exemptions and/or credits. You should consult www.mcgill.ca/students/transferecredit for more information.

13.13.1.1 Bachelor of Science (B.Sc.) - Freshman Program (30 credits)

Students who need 97–120 credits to complete their degree requirements will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/student/newstudents/u0>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses to satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program should be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/specific>.
4. The maximum number of courses per term, required, complementary, and elective, is five.
5. Some medical and dental schools have specific freshman course requirements. Check the admission requirements of the school(s) to which you intend to apply.

List of approved Freshman Science Courses

Select the approved courses according to the instructions above.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133**	(3)	Linear Algebra and Geometry
MATH 134***	(3)	Enriched Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

* CHEM 115 is not open to students who are taking or have taken CHEM 110 or CHEM 120.

* CHEM 120 is not open to students who have taken CHEM 115.

** Not open to students who are taking or taken MATH 134.

*** MATH 134 is an enriched version of MATH 133. MATH 134 may be used instead of MATH 133 to: (1) provide a course prerequisite; and (2) satisfy program requirements.

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/suggested-elective-courses>. Certain courses offered by other faculties may also be taken, but some restrictions apply. Consult the SOUSA website at <http://www.mcgill.ca/science/student/continuingstudents/bsc/outside/> for more information about taking courses from other faculties.

13.13.2 Anatomy and Cell Biology (ANAT)

13.13.2.1 Location

Strathcona Anatomy and Dentistry Building, Room 1/60
3640 University Street
Montreal, Quebec H3A 0C7

Telephone: 514-398-6335

Website: www.mcgill.ca/anatomy

13.13.2.2 About Anatomy and Cell Biology

The Department of Anatomy and Cell Biology offers courses that deal with cell biology, histology, embryology, neuroanatomy, and gross anatomy. The Honours program is designed as the first phase in the training of career cell and molecular biologists. The Major and Liberal programs offer decreasing levels of specialization in Anatomy and Cell Biology but with a broader base in other biological sciences. These programs also form a sound background for graduate studies in Anatomy and Cell Biology, or for further professional training. Students should choose their major based on their interest and also consider the Interdisciplinary Minor in Life Sciences. A B.Sc. in Anatomy and Cell Biology provides an excellent preparation for technical and administrative positions in laboratories of universities, research institutions, hospitals, pharmaceutical and biotechnological industries.

The Department is equipped to perform protein purification, recombinant DNA technology, micro-injection of molecules into single cells, cytochemical, immunocytochemical and fluorescent analysis and electron microscopy, proteomics and genomics. The Department has a well-equipped centre for electron microscopy as well as a centre for confocal and immunofluorescence. The new cryo-electron microscope facility in the Department is unique and represents a cutting edge technology to apply fundamental discoveries to therapeutic applications.

Inquiries about programs should be directed to the Department of Anatomy and Cell Biology.

13.13.2.3 Anatomy and Cell Biology (ANAT) Faculty

Chair

Craig Mandato

Emeritus Professors

Gary C. Bennett; B.A., B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Yves Clermont; B.Sc.(Montr.), Ph.D.(McG.), F.R.C.S.

Dennis G. Osmond; C.M., B.Sc., M.B., Ch.B., D.Sc.(Brist.), M.R.C.S., L.R.C.P., F.R.S.C.

H. Warshawsky; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Professors

Chantal Autexier; B.Sc.(C'dia), Ph.D.(McG.)

Philip Barker; B.Sc.(S. Fraser), Ph.D.(Alta.) (*joint appt. with Neurology & Neurosurgery*)

Alain Beaudet; M.Sc., Ph.D., M.D.(Montr.) (*joint appt. with Neurology & Neurosurgery*)

James R. Brawer; B.S.(Tufts), Ph.D.(Harv.)

Samuel David; Ph.D.(Manit.) (*joint appt. with Neurology & Neurosurgery*)

Louis Hermo; B.A.(Loyola), M.Sc., Ph.D.(McG.)

Professors

Timothy Kennedy; B.Sc.(McM.), M.Phil., Ph.D.(Col.) (*joint appt. with Neurology & Neurosurgery*)

Nathalie Lamarche-Vane; B.Sc., Ph.D.(Montr.)

Marc D. McKee; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Dentistry*)

Peter McPherson; B.Sc.(Manit.), Ph.D.(Iowa) (*joint appt. with Neurology and Neurosurgery*)

Sandra C. Miller; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Carlos R. Morales; DVM.(U.N., Argentina), Ph.D.(McG.)

Barry I. Posner; M.D.(Manit.), F.R.C.P.(C) (*joint appt. with Medicine*)

Dieter Reinhardt; M.S.(Kaiserslautern), Ph.D.(Munich) (*joint appt. with Dentistry*)

Alfredo Ribeiro-da-Silva; M.D., Ph.D.(Oporto) (*joint appt. with Pharmacology and Therapeutics*)

Wayne Sossin; S.B.(MIT), Ph.D.(Stan.) (*joint appt. with Neurology & Neurosurgery*)

Stefano Stifani; Ph.D.(Rome), Ph.D.(Alta.) (*joint appt. with Neurology & Neurosurgery*)

Dominique Walker; B.Sc., Ph.D.(Geneva) (*joint appt. with Psychiatry*)

Associate Professors

Orest W. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.) (*joint appt. with Surgery*)

Eugene Daniels; M.Sc., Ph.D.(Manit.)

Elaine Davis; B.Sc., M.Sc.(W. Ont.), Ph.D.(McG.)

M.F. Lalli; B.Sc., M.Sc.(Bowling Green), Ph.D.(McG.)

Craig Mandato; B.Sc., Ph.D.(Wat.)

John F. Presley; B.A., Ph.D.(Texas)

Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich) (*joint appt. with Earth and Planetary Sciences*)

Assistant Professors

Fiona Bedford; B.Sc.(Birm.), Ph.D.(Lond.)

Isabelle Rouiller; Ph.D.(UK)

Associate Members

John J.M. Bergeron (*Medicine*)

Albert Berghuis (*Biochemistry*)

Colin Chalk (*Neurology & Neurosurgery*)

Jean-François Cloutier (*Neurology & Neurosurgery*)

Claudio Cuello (*Pharmacology & Therapeutics*)

Giovanni DiBattista (*Medicine*)

Alyson Fournier (*Neurology & Neurosurgery*)

Janet Henderson (*Medicine*)

Robert Scott Kiss (*Biochemistry*)

Bartha Knoppers (*Human Genetics*)

Svetlana Komarova (*Dentistry*)

Andrea Leblanc (*Neurology & Neurosurgery*)

Peter Metrakos (*Department of Surgery*)

Tommy Nilsson (*Medicine*)

Edward S. Ruthazer (*Neurology & Neurosurgery*)

Michael Sacher (*Biology*)

Philippe Seguela (*Neurology & Neurosurgery*)

Associate MembersPeter Siegel (*Medicine & Biochemistry*)Thomas Stroh (*Neurology & Neurosurgery*)Jacalyn Vogel (*Biology*)Xiang-Jiao Yang (*Medicine*)**Adjunct Professors**

Michel Cayouette; Ph.D.(Laval)

Frederic Charron; B.Sc.(Montr.), Ph.D.(McG.)

Miroslaw Cygler; M.Sc., Ph.D.(Lodz, Poland)

Daniel Cyr; B.Sc., M.Sc.(C'dia), Ph.D.(Manit.)

Michel Desjardins; M.Sc., Ph.D.(Montr.)

Jacques Drouin; B.Sc., D.Sc.(Laval)

David Hipfner; B.Sc., Ph.D.(Qu.)

Artur Kania; Ph.D.(Baylor)

André Nantel; B.Sc., M.Sc.(Laval), Ph.D.(Chapel Hill)

Alexei Pshezhetsky; Ph.D.(Russia)

Joseph Schrag; M.Sc., Ph.D.(Ill.)

Atilla Sik; M.Sc., Ph.D.(Hungary)

Faculty Lecturer

Ayman Behiery; M.B., Ch.B.(Cairo)

13.13.2.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Anatomy and Cell Biology (48 credits)

Students may complete this program with a minimum of 47 credits or a maximum of 48 credits depending on their choice of complementary courses.

Required Courses (32 credits)

* Students who have taken the equivalent of CHEM 212 and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

One of the following statistics courses:

MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Complementary Courses (16 credits)

Students complete a minimum of 15 or a maximum of 16 complementary course credits selected as follows:

List A

9 credits selected from:

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 565	(3)	Diseases-Membrane Trafficking
NEUR 310	(3)	Cellular Neurobiology

List B

6-7 credits selected from:

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 565	(3)	Diseases-Membrane Trafficking
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
EXMD 504	(3)	Biology of Cancer
NEUR 310	(3)	Cellular Neurobiology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease

13.13.2.5 Bachelor of Science (B.Sc.) - Major Anatomy and Cell Biology (67 credits)

Required Courses (43 credits)

Note: ANAT 261 must be taken in U1.

* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 212*	(4)	Introductory Organic Chemistry 1

CHEM 222*	(4)	Introductory Organic Chemistry 2
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

One of the following statistics courses:

BIOL 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Complementary Courses (24 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

12 credits selected from:

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology

12 credits of biologically oriented courses (BOC) selected from:

ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 432	(9)	Honours Research Project
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 514	(3)	Neurobiology Learning and Memory
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 451	(3)	Advanced Neurophysiology

PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Cellular Immunology
PHGY 515	(3)	Physiology of Blood 1
PHGY 516	(3)	Physiology of Blood 2
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

13.13.2.6 Bachelor of Science (B.Sc.) - Honours Anatomy and Cell Biology (73 credits)

Students should register at the Major level in U1 and, if accepted, may enter the Honours program at the beginning of U2. To enter the program, the student must obtain a CGPA of at least 3.20 at the end of U1. For promotion to the U3 year of the Honours program, or for entry into the program at this level, the student must have a CGPA of at least 3.20 at the end of their U2 year. It is expected that at the beginning of the third year, the students who wish to continue in the Honours program will be those who feel that they are seriously interested in a career in Cell Biology. The Honours degree will be recommended after successful completion of the program with a CGPA of at least 3.20.

Required Courses (52 credits)

Note: ANAT 261 must be taken in U1.

* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 432	(9)	Honours Research Project
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

One of the following statistics courses:

BIOL 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Complementary Courses (21 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

18 credits selected from:

* Note: Students may take either ANAT 321 OR ANAT 323.

ANAT 321*	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 323*	(3)	Neuroanatomy
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology

3 credits of biologically oriented courses (BOC) selected from:

ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 432	(9)	Honours Research Project
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 514	(3)	Neurobiology Learning and Memory
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar

BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
NEUR 310	(3)	Cellular Neurobiology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 451	(3)	Advanced Neurophysiology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Cellular Immunology
PHGY 515	(3)	Physiology of Blood 1
PHGY 516	(3)	Physiology of Blood 2
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYT 455	(3)	Neurochemistry

13.13.3 Atmospheric and Oceanic Sciences (ATOC)

13.13.3.1 Location

Burnside Hall, Room 945
805 Sherbrooke Street West
Montreal, Quebec H3A 0B9

Telephone: 514-398-3764

Fax: 514-398-6115

Email: undergraduateinfo@meteo.mcgill.ca

Website: www.mcgill.ca/meteo

13.13.3.2 About Atmospheric and Oceanic Sciences

The Department of Atmospheric and Oceanic Sciences offers, at the undergraduate level, a broad range of courses and degree programs in atmospheric science (meteorology). At the postgraduate level, programs of study are offered in physical oceanography, air-sea interaction, and climate research as well as in different branches of atmospheric science. The study of atmospheric science is based largely on physics and applied mathematics. All required courses except those at the introductory level generally have prerequisites or corequisites in physics, mathematics, and atmospheric science. One of the goals of the discipline is to develop the understanding necessary to improve our ability to predict the weather, but atmospheric science is more than weather forecasting.

Another important area of study focuses on the possible changes in global climate caused by the changing chemical composition of the atmosphere. The approach is always quantitative. Like other parts of physics, atmospheric science attempts to create theoretical models of its complex processes, as a means of analyzing the motion and composition of the air, its thermodynamic behaviour, and its interaction with radiation and with the solid or liquid surface beneath it.

From one viewpoint, the atmosphere may be studied as a large volume of gas by the methods of fluid mechanics: winds, circulation patterns, turbulence, and energy and momentum exchanges are the ideas employed in this approach. Alternatively, the atmosphere may be studied from the point of view of its detailed physics: how water condenses in the air, how cloud droplets make rain, how sunlight warms the ground and the ground warms the air above it by radiation and convection, and how the atmosphere and ocean interact to shape the weather and climate. A comprehensive understanding requires both viewpoints, and these are reflected in the curriculum.

The Department of Atmospheric and Oceanic Sciences offers four main programs in Atmospheric Science: Honours, Major, Minor, and a Joint Major in Atmospheric Science and Physics. The Honours program is meant for students with high standing. It is based on courses similar to those in the Major program, but provides the opportunity to take advanced optional courses. The Major program, although somewhat less intensive, satisfies the requirements for a professional career as a meteorologist, and like the Honours program equips the student to undertake postgraduate study in meteorology, atmospheric science, and related sciences (physical oceanography) at any of the leading universities. The Department also offers a special one-year Diploma program to B.Sc. or B.Eng. graduates.

A degree in Atmospheric Science can lead to a professional career in government service or private industry. The Meteorological Service of Canada has traditionally been the main employer of graduating students, but certain provincial governments and environmental consulting and engineering firms also employ graduates trained in atmospheric science. Positions in teaching and research are available to graduates with M.Sc. and Ph.D. degrees. Students interested in any of the undergraduate programs should consult the undergraduate adviser, Room 946, Burnside Hall.

13.13.3.3 Atmospheric and Oceanic Sciences (ATOC) Faculty

Chair

John R. Gyakum

Emeritus Professors

Jacques F. Derome; M.Sc.(McG.), Ph.D.(Mich.), F.R.S.C.

Henry G. Leighton; M.Sc.(McG.), Ph.D.(Alta.)

Lawrence A. Mysak; B.Sc.(Alta.), M.Sc.(Adel.), A.M., Ph.D.(Harv.), F.R.S.C.

Isztar I. Zawadzki; B.Sc.(Buenos Aires), M.Sc., Ph.D.(McG.), F.R.S.C.

Professors

Parisa Ariya; B.Sc., Ph.D.(York) (*James McGill Professor*) (*joint appt. with Chemistry*)

John R. Gyakum; B.Sc.(Penn.), M.Sc., Ph.D.(MIT)

Man Kong (Peter) Yau; S.B., S.M., Sc.D.(MIT)

Associate Professors

Peter Bartello; M.Sc., Ph.D.(McG.) (*joint appt. with Mathematics and Statistics*)

Frédéric Fabry; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with McGill School of Environment*)

Pavlos Kollias; B.Sc., M.Sc.(Athens), Ph.D.(Miami) (*Canada Research Chair, Tier 2*)

David Straub; B.Sc., M.Sc.(SW Louisiana), Ph.D.(Wash.)

Bruno Tremblay; B.Sc.(McG.), M.Sc.(Car.), Ph.D.(McG.)

Assistant Professors

Yi Huang; B.Sc., M.Sc.(Pekin), Ph.D.(Princ.)

Daniel Kirshbaum; Ph.D.(Wash.)

Jaime Palter; B.Sc., Ph.D.(Duke)

Adjunct Professors

Ashu Dastoor; Ph.D.(Indian IT)

Luc Fillion; Ph.D.(McG.)

Pierre Gauthier; Ph.D.(McG.)

Hai Lin; Ph.D.(McG.)

Damon Matthews; Ph.D.(Vic., BC)

Seok-Woo Son; Ph.D.(Penn.)

Associate Member

Michel Bourqui; Ph.D.(ETH Zurich)

13.13.3.4 Bachelor of Science (B.Sc.) - Minor Atmospheric Science (18 credits)

This Minor may be taken in conjunction with any program in the Faculty of Science.

Required Courses (15 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection

Either of the following courses:

ATOC 219	(3)	Introduction to Atmospheric Chemistry
CHEM 219	(3)	Introduction to Atmospheric Chemistry

Complementary Course (3 credits)

3 credits from the following:

ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory

13.13.3.5 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Atmospheric and Oceanic Sciences (48 credits)

45-48 credits

Required Courses (21 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (27 credits)

24-27 credits:

Note: All students are encouraged to consult with the Undergraduate Adviser for help selecting from among the complementary courses.

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits selected from:

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
PHYS 257	(3)	Experimental Methods 1

3 credits selected from:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

3 credits selected from:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

12-16 credits selected from (at least 6 of which must be ATOC):

ATOC 309	(3)	Weather Radars and Satellites
ATOC 419	(3)	Advances in Chemistry of Atmosphere
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 558	(3)	Numerical Methods and Laboratory

ATOC 568	(3)	Ocean Physics
COMP 208	(3)	Computers in Engineering
MATH 203	(3)	Principles of Statistics 1
MATH 319	(3)	Introduction to Partial Differential Equations
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism

13.13.3.6 Bachelor of Science (B.Sc.) - Major Atmospheric Science (61 credits)

Required Courses (24 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
COMP 208	(3)	Computers in Engineering
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (37 credits)

36-37 credits

Note: All students are encouraged to consult with the Undergraduate Adviser for help selecting from among the complementary courses. As general recommendations (but not programmatic requirements), students wishing to comply with Environment Canada recommendations for careers in operational meteorology are advised to take ATOC 215, 309, 512, 513, 540, 541, and 546. Students interested in atmospheric chemistry, aerosols, and cloud physics are advised to take ATOC 219, 309, 419, 521, 525, 540 and CHEM 223, 253. Suggested minors include math, physics, chemistry, computer science, earth and planetary science, and geography.

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits selected from:

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
PHYS 257	(3)	Experimental Methods 1

3 credits selected from:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

3 credits selected from:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

21-25 credits selected from the following (at least 12 credits must come from ATOC):

ATOC 309	(3)	Weather Radars and Satellites
ATOC 419	(3)	Advances in Chemistry of Atmosphere
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
EPSC 320	(3)	Elementary Earth Physics
EPSC 340	(3)	Earth and Planetary Inference
EPSC 542	(3)	Chemical Oceanography
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
MATH 203	(3)	Principles of Statistics 1
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance
MATH 555*	(4)	Fluid Dynamics
PHYS 241	(3)	Signal Processing
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432*	(3)	Physics of Fluids

* Students may take PHYS 432 OR MATH 555.

13.13.3.7 Bachelor of Science (B.Sc.) - Major Atmospheric Science and Physics (67 credits)

This Major provides a solid basis for postgraduate study in meteorology, atmospheric physics, or related fields, as well as the necessary preparation for embarking on a professional career as a meteorologist directly after the B.Sc.

The program is jointly administered by the Department of Physics and the Department of Atmospheric and Oceanic Sciences. Students should consult undergraduate advisers in both departments.

Required Courses (64 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 412	(3)	Atmospheric Dynamics
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 446	(3)	Majors Quantum Physics

Complementary Course (3 credits)

Students select one of the following courses:

PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics

13.13.3.8 Bachelor of Science (B.Sc.) - Honours Atmospheric Science (73 credits)

72-73 credits

Students can be admitted to the Honours program after completion of the U1 year of the Major in Atmospheric Science program with a minimum GPA of 3.30. Students having completed a U1 year in a different program with high standing may be admitted to the Honours program on the recommendation of that department.

A minimum GPA of 3.30 in the Honours program courses (taken as a whole) is required to remain in the program. A CGPA of 3.30 on the total program is also required to graduate with honours.

Required Courses (27 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
ATOC 480	(3)	Honours Research Project
COMP 208	(3)	Computers in Engineering
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (46 credits)

45-46 credits

Note: All students are encouraged to consult with the undergraduate adviser for help selecting from among the complementary courses. As general recommendations (but not programmatic requirements), students wishing to comply with Environment Canada recommendations for careers in operational meteorology are advised to take ATOC 215, 309, 512, 513, 540, 541, and 546. Students interested in atmospheric chemistry, aerosols, and cloud physics are advised to take ATOC 219, 309, 419, 521, 525, 540 and CHEM 223, 253. Suggested minors include math, physics, chemistry, computer science, earth and planetary science, and geography.

27 credits at the 200 to 300 level

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits selected from:

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
PHYS 257	(3)	Experimental Methods 1

3 credits selected from:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

3 credits selected from:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

3 credits selected from:

CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
MATH 319	(3)	Introduction to Partial Differential Equations

9-12 credits selected from:

ATOC 309	(3)	Weather Radars and Satellites

CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 362	(2)	Advanced Organic Chemistry Laboratory
CHEM 367	(3)	Instrumental Analysis 1
MATH 203	(3)	Principles of Statistics 1
MATH 317	(3)	Numerical Analysis
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
PHYS 241	(3)	Signal Processing
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves

18-19 credits at the 400 to 500 level, selected from the following (at least 12 credits must come from ATOC):

ATOC 419	(3)	Advances in Chemistry of Atmosphere
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
CHEM 575	(3)	Chemical Kinetics
EPSC 542	(3)	Chemical Oceanography
MATH 423	(3)	Regression and Analysis of Variance
MATH 555*	(4)	Fluid Dynamics
PHYS 432*	(3)	Physics of Fluids
PHYS 551	(3)	Quantum Theory
PHYS 559	(3)	Advanced Statistical Mechanics

* Students may take PHYS 432 OR MATH 555.

13.13.3.9 Diploma in Meteorology (30 credits)

The Department offers an intensive, one-year program in theoretical and applied meteorology to B.Sc. or B.Eng. graduates of suitable standing in physics, applied mathematics or other appropriate disciplines, leading to a Diploma in Meteorology. The program is designed for students with little or no previous background in meteorology who wish to direct their experience to atmospheric or environmental applications, or who need to fulfil academic prerequisites in meteorology to qualify for employment. For further information, consult the Administrative Officer, Burnside Hall, Room 946.

An exemption of up to 6 credits may be allowed for courses already taken. Students granted such exemptions are required to add complementary courses from an approved list to maintain a total credit count of 30 completed at McGill.

Required Courses (15 credits)

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 521	(3)	Cloud Physics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2

Complementary Courses (15 credits)

6 credits selected from the courses below.

* Students take either ATOC 419 or CHEM 419.

ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 419*	(3)	Advances in Chemistry of Atmosphere
CHEM 419*	(3)	Advances in Chemistry of Atmosphere

9 credits ordinarily selected from:

* Students take either PHYS 432 or MATH 555.

ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 555*	(4)	Fluid Dynamics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432*	(3)	Physics of Fluids

13.13.3.10 Atmospheric and Oceanic Sciences (ATOC) Related Programs

13.13.3.10.1 Internship Year in Science (IYS)

IYS is a pregraduate work experience program available to eligible students and normally taken between their U2 and U3 years. For more information, see [section 13.10.5: Internship Programs – Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#).

The following programs are also available with an internship component:

- Major in Atmospheric Science;
- Honours in Atmospheric Science.

A Science major concentration in Earth, Atmosphere and Ocean Sciences is available to students pursuing the B.A. & Sc. degree. This Major concentration is described in the Bachelor of Arts and Science section of this publication; see [section 13.13.10: Earth, Atmosphere and Ocean Sciences](#) for details.

13.13.3.10.2 Earth System Science Interdepartmental Major

This program is offered by the Department of Atmospheric & Oceanic Sciences, Earth & Planetary Sciences, and Geography.

Students in the Department of Atmospheric & Oceanic Sciences interested in this program should contact Professor Bruno Tremblay (bruno.tremblay@mcgill.ca). For more information, see [section 13.13.11: Earth System Science \(ESYS\)](#).

13.13.4 Biochemistry (BIOC)

13.13.4.1 Location

McIntyre Medical Building, 9th Floor
3655 Promenade Sir-William-Osler
Montreal, Quebec H3G 1Y6

Christine Laberge, Student Affairs Officer
Telephone: 514-398-2423
Email: christine.laberge@mcgill.ca
Website: www.mcgill.ca/biochemistry

13.13.4.2 About Biochemistry

Biochemistry is the application of chemical, genetic, and biophysical approaches to the study of biological processes at the cellular and molecular level. We are interested in, for example, mechanisms of brain function; cellular differentiation; energy utilization by animals and microorganisms; and in the molecular basis of inheritance and disease. The researcher seeks to determine how specific molecules such as proteins, nucleic acids, lipids, vitamins, and hormones function in various cellular processes. Particular emphasis is placed on the regulation of reactions in living cells. The knowledge and methods developed by researchers are applied in all fields of medicine, in agriculture, and in many chemical and health-related industries. Biochemistry is unique in providing basic theoretical training, as well as basic practical laboratory training and research in both enzymology and genetic engineering, which are the two basic components in the rapidly expanding field of Biotechnology.

There are three programs offered by the Department of Biochemistry: Major, Honours, and Liberal. The Major and Honours programs provide a sound background for students who wish to have a professional career in biochemistry, and can lead to postgraduate studies and research careers in hospital, university, or industrial laboratories. The Liberal program is less specialized, offering students opportunities to select courses in other fields of interest.

During the first year, each program provides basic training in organic, physical, and analytical chemistry, as well as in biology and physiology. The Honours and Major programs become more specialized in biochemistry during the following two years, with additional work in chemistry and biology.

Students interested in pursuing an *ad hoc* Joint Major or Joint Honours degree between Biochemistry and a second discipline may consult with our Chief Academic Adviser, Dr. Albert Berghuis (albert.berghuis@mcgill.ca).

The increasing involvement of complex technology in modern society requires personnel trained in both chemistry and biology. With the advent of biotechnology, the combination of chemistry, molecular biology, enzymology, and genetic engineering found in the biochemistry program provides the essential background and training. The researcher is in an advantageous position to fulfil this role and assume a wide variety of positions in industry and the health field. These positions include: research and development in the chemical and pharmaceutical industries; testing and research in government and hospital laboratories; and management. Many graduates pursue higher degrees in research and attain academic positions in universities and colleges.

13.13.4.3 Adviser

New students interested in Biochemistry should refer to our website for information regarding orientation and program advising:
www.mcgill.ca/biochemistry/undergraduates/advising.

Returning students must schedule an advising appointment directly with the academic adviser assigned to them in their first year in Biochemistry.

13.13.4.4 Biochemistry (BIOC) Faculty

Chair

David Y. Thomas

Associate Chair

Kalle Gehring

Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C. (*joint appt. with Medicine*)

Peter E. Braun; B.Sc., M.Sc.(Br. Col.), Ph.D.(Calif., Berk.)

Robert E. MacKenzie; B.Sc.(Agr.)(McG.), M.N.S., Ph.D.(C'nell.)

Edward A. Meighen; B.Sc.(Alta.), Ph.D.(Calif., Berk.)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

Theodore L. Sourkes; M.Sc.(McG.), Ph.D.(C'nell), F.R.S.C.

Clifford P. Stanners; B.Sc.(McM.), M.A., Ph.D.(Tor.)

Professors

Nicole Beauchemin; B.Sc., M.Sc., Ph.D.(Montr.) (*joint appt. with Oncology and Medicine*)

Albert Berghuis; B.Sc., M.Sc.(Rijks Univ. Groningen, The Netherlands), Ph.D.(Br. Col.) (*Canada Research Chair in Structural Biology*)

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (*Gilman Cheney Professor of Biochemistry*)

Kalle Gehring; B.A.(Brown), M.Sc.(Mich.), Ph.D.(Calif., Berk.) (*Chercheur National du FRSQ*)

Vincent Giguère; B.Sc., Ph.D.(Laval) (*joint appt. with Oncology and Medicine*)

Philippe Gros; B.Sc., M.Sc.(Montr.), Ph.D.(McG.), F.R.S.C. (*James McGill Professor*)

Roderick McInnes; B.Sc., M.D.(Dal.), Ph.D.(McG.) (*Canada Research Chair in Neurogenetics*) (*joint appt. with Human Genetics*)

William Muller; B.Sc., Ph.D.(McG.) (*Canada Research Chair in Molecular Oncology*)

Alain Nepveu; B.Sc., M.Sc.(Montr.), Ph.D.(Sher.) (*James McGill Professor*) (*joint appt. with Oncology and Medicine*)

Morag Park; B.Sc., Ph.D.(Glasgow), F.R.S.C. (*Diane & Sal Guerrera Chair in Cancer Genetics*) (*James McGill Professor*) (*joint appt. with Oncology and Medicine*)

Jerry Pelletier; B.Sc., Ph.D.(McG.) (*James McGill Professor*)

Gordon C. Shore; B.Sc.(Guelph), Ph.D.(McG.)

Joseph Shuster; B.Sc.(McG.), Ph.D.(Calif.), M.D.(Alta.)

John R. Silvius; B.Sc., Ph.D.(Alta.)

Nahum Sonenberg; M.Sc., Ph.D.(Weizmann Inst.), F.R.S.C., F.R.S. (*James McGill Professor*)

David Y. Thomas; B.Sc.(Brist.), M.Sc., Ph.D.(Univ. Coll., Lond.), F.R.S.C. (*Canada Research Chair in Molecular Genetics*)

Michel L. Tremblay; B.Sc., M.Sc.(Sher.), Ph.D.(McM.), F.R.S.C. (*James McGill Professor*) (*Jeanne & Jean-Louis Levesque Chair in Cancer Research*)

Maria Zannis-Hadjopoulos; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Oncology and Medicine*)

Associate Professors

Maxime Bouchard; B.Sc., Ph.D.(Laval) (*Canada Research Chair in Kidney Disease*)

Thomas Duchaine; B.Sc., Ph.D.(Montr.) (*Chercheur Boursier du FRSQ*)

Imed Gallouzi; Maitrise, DEA, Ph.D.(Montpellier, France) (*Canada Research Chair in Cellular Information Systems*)

Bhushan Nagar; B.Sc., Ph.D.(Tor.) (*Canada Research Chair in the Structural Biology of Signal Transduction*)

Arnim Pause; B.Sc., M.Sc.(U. Konstanz, Germ.), Ph.D.(McG.) (*Canada Research Chair in Molecular Oncology*)

Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.) (*Canada Research Chair in Molecular Chaperones*)

Assistant Professors

Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)

Josée Dostie; B.Sc.(Sher.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur Boursier du FRSQ*)

Sidong Huang; B.A. (Boston), Ph.D.(Calif.)

Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale)

Julie St-Pierre; B.Sc., M.Sc.(Laval), Ph.D.(Camb.)

Jose Teodoro; B.Sc.(W. Ont.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur Boursier du FRSQ*)

Associate Members

Karine Auclair (*Chemistry*)

Edward A. Fon (*Neurology and Neurosurgery*)

Jacques Genest (*Medicine*)

Matthias Götte (*Microbiology and Immunology*)

Michael Hallett (*Bioinformatics*)

Qutayba Hamid (*Medicine and Pathology Meakins-Christie Labs*)

Robert Scott Kiss (*Medicine*)

Associate Members

Gergely Lukacs (*Physiology*)
 Vassilios Papadopoulos (*Medicine*)
 Janusz Rak (*Pediatrics*)
 Reza Salavati (*Parasitology*)
 Maya Saleh (*Medicine*)
 Erwin Schurr (*Ct. for Study of Host Resistance, MGH*)
 Peter Siegel (*Medicine*)
 Youla Tsantrizos (*Chemistry*)
 Bernard Turcotte (*Medicine*)
 Simon Wing (*Medicine*)
 Xiang-Jiao Yang (*Medicine*)

Adjunct Professors

Mirek Cygler (*Biochemistry, Sask.*)
 Jacques Drouin (*IRCM*)
 Anny Fortin (*Dafra Pharma*)
 Tarik Möröy (*IRCM*)
 Donald Nicholson (*Merck Frosst*)
 Enrico Purisima (*NRC/BRI*)
 René Roy (*UQAM*)

13.13.4.5 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biochemistry (47 credits)**U1 Required Courses (20 credits)**

* Students with CEGEP-level credit for CHEM 212 and/or CHEM 222 should replace these courses with elective courses.

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2

U1 Complementary Courses (6 credits)**

** Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (15 credits)

BIOC 300D1	(3)	Laboratory in Biochemistry

BIOC 300D2	(3)	Laboratory in Biochemistry
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
CHEM 302	(3)	Introductory Organic Chemistry 3

U2 Complementary Courses** (3 credits)

** Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

3 credits selected from:

BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Complementary Courses (3 credits)

3 credits selected from:

BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

13.13.4.6 Bachelor of Science (B.Sc.) - Major Biochemistry (67 credits)

Students may transfer into the Major program at any time, provided they have met all course requirements.

U1 Required Courses (23 credits)

* Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

U1 Complementary Courses (6 credits)

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (23 credits)

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 300D1	(3)	Laboratory in Biochemistry
BIOC 300D2	(3)	Laboratory in Biochemistry
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362	(2)	Advanced Organic Chemistry Laboratory

U2 Complementary Courses (3 credits)

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Required Courses (6 credits)

BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

U3 Complementary Courses (6 credits)

At least 3 credits selected from:

BIOC 404	(3)	Biophysical Chemistry
BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
PSYT 455	(3)	Neurochemistry

The remainder, if any, to be selected from the following list:

BIOC 570	(3)	Biochemistry of Lipoproteins
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry

CHEM 552	(3)	Physical Organic Chemistry
CHEM 572	(3)	Synthetic Organic Chemistry
EXMD 502	(3)	Advanced Endocrinology 01
MIMM 314	(3)	Intermediate Immunology
MIMM 324	(3)	Fundamental Virology
PHAR 300	(3)	Drug Action
PHGY 311	(3)	Channels, Synapses & Hormones

13.13.4.7 Bachelor of Science (B.Sc.) - Honours Biochemistry (76 credits)

Admission to the Honours program will not be granted until U2. Students who wish to enter the Honours program in U2 should follow the U1 Major program. Those who satisfactorily complete the U1 Major program with a GPA of at least 3.20 and a mark of B- or better in every required course are eligible for admission to the Honours program.

Students seeking admission to the Honours program must obtain permission from the Departmental Student Affairs Officer, Christine Laberge (christine.laberge@mcgill.ca), during the Add/Drop period in September of their second year.

Promotion to U3 year is based on satisfactory completion of U2 courses with a GPA of at least 3.20 and a mark of B- or better in every required course. In borderline cases, the marks received in BIOC 311 and BIOC 312 will be of particular importance for continuation in the U3 Honours year.

For graduation in the Honours program, students must complete a minimum of 90 credits, pass all required courses with no grade less than B-, and achieve a CGPA of at least 3.20.

U1 Required Courses (23 credits)

* Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

U1 Complementary Courses (6 credits)

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (23 credits)

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 300D1	(3)	Laboratory in Biochemistry
BIOC 300D2	(3)	Laboratory in Biochemistry
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362	(2)	Advanced Organic Chemistry Laboratory

U2 Complementary Courses (3 credits)

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Required Courses (15 credits)

BIOC 404	(3)	Biophysical Chemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 462	(6)	Research Laboratory in Biochemistry

U3 Complementary Courses (6 credits)

At least 3 credits selected from:

BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 491	(6)	Independent Research
BIOC 503	(3)	Immunochemistry
PSYT 455	(3)	Neurochemistry

The remainder, if any, to be selected from the following list:

BIOC 570	(3)	Biochemistry of Lipoproteins
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry
CHEM 552	(3)	Physical Organic Chemistry
CHEM 572	(3)	Synthetic Organic Chemistry
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
MIMM 314	(3)	Intermediate Immunology

MIMM 324	(3)	Fundamental Virology
PHAR 300	(3)	Drug Action
PHGY 311	(3)	Channels, Synapses & Hormones

13.13.4.8 Biochemistry (BIOC) Related Programs

13.13.4.8.1 Interdepartmental Honours in Immunology

For more information, see [section 13.13.17: Immunology](#). This program is offered by the departments of Biochemistry, Microbiology and Immunology, and Physiology. Students interested in the program should contact Dr. C. Piccirillo, Microbiology and Immunology (ciro.piccirillo@mcgill.ca, 514-934-1934 extension 45135), or Dr. Monroe Cohen, Physiology (monroe.cohen@mcgill.ca, 514-398-4342).

13.13.5 Biology (BIOL)

13.13.5.1 Location

Stewart Biology Building, Room W4/7
1205 avenue Docteur Penfield
Montreal, Quebec H3A 1B1

Telephone: 514-398-6400

Fax: 514-398-5069

Website: <http://biology.mcgill.ca>

13.13.5.2 About Biology

Biology is the study of living things at the molecular, cellular, organismal, and ecosystem levels. It deals with fundamental questions such as the origin and evolution of plants and animals, interactions between living organisms and their environment, mechanisms of embryonic development, structure, and function of the living cell and individual molecules within it, molecular basis of inheritance, biochemical, and genetic basis of human diseases, and how the brain and the nervous system control behaviour. The study of biology also has vast practical applications. The knowledge, methods, and concepts developed through research in the various fields of biology are applied extensively in agriculture, medicine, pharmaceutical development, biotechnology, genetic engineering, environmental protection, and wildlife management.

The Department of Biology offers a Liberal program, a Major program, Joint Majors with Computer Science and with Mathematics, an Honours program, a Minor program, a Minor concentration in Science for Arts students, a Biology Major option in Quantitative Biology, as well as major and minor concentrations in the B.A. & Sc.

The programs in Biology offer students an opportunity to gain knowledge in more than one area of biology and they provide a broader training than the more specialized programs in Biochemistry, Microbiology, Physiology, or Anatomy and Cell Biology. Many of our graduates continue on to M.D. programs and successful careers in health care. A B.Sc. degree in Biology also prepares students for a wide range of employment opportunities, including entry to professional schools in veterinary science, dentistry, agriculture, nursing, education, and library science. It provides a solid background for students who are interested in careers related to environmental protection, wildlife management, biotechnology, and the pharmaceutical industry. A B.Sc. degree in Biology often leads to postgraduate studies at the M.Sc. and Ph.D. levels, and then on to research careers in universities, research institutes, hospitals, and industrial or governmental laboratories.

The Department of Biology has well-equipped teaching laboratories located in the Stewart Biology Building, and research labs located in the Stewart Biology Building and the Bellini Life Sciences Building. Much of the Department's research space has been renovated or newly constructed in the last several years thanks to extensive support from the Canadian Foundation for Innovation, the *Ministère de la développement économique, innovation, et exploration du Québec*, and the generosity of private benefactors. Our undergraduates are encouraged to take advantage of these facilities by pursuing independent research projects, either as 3-, 6-, and 9-credit stand-alone courses or as part of the Honours program. Department members carry out research in areas of molecular biology, cell biology, ecology, animal behaviour, developmental biology, bioinformatics, neurobiology, marine biology, plant biology, and evolution. The Department also includes many associate faculty members, many of whom are located in McGill-affiliated teaching hospitals or in departments of the Faculty of Medicine, and others who are affiliated with the Redpath Museum, the McGill School of Environment, and remote sites such as the Smithsonian Tropical Research Institute (STRI) in Panama and the Bellairs Research Institute in Barbados. Field courses are given at STRI and Bellairs, at the nearby Gault Nature Reserve, and also at the Huntsman Marine Science Centre in New Brunswick. The Department is also a very active contributor to the Africa Field Study Semester.

The *Biology Department Undergraduate Programs 2013–2014* booklet (“Blue Book”) describes in detail the content of each course and the level at which it is given, the aims and methods used, lectures, references, grading procedures, and other important information. The “Blue Book” also contains more information on registration, counselling, committee structure, and the research interests and facilities that are provided in the Department. It is available at <http://biology.mcgill.ca/undergrad/bluebook.html>.

Inquiries about undergraduate programs should be directed to the Student Affairs Office, Room W3/25, Stewart Biology Building, telephone 514-398-4109.



Note to those interested in the B.A. & Sc. program: Two major concentrations in Biology as well as two minor concentrations in Biology (Organismal and Cell/Molecular Options) are available to students pursuing the B.A. & Sc. degree. These major concentrations are described in *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > section 4.10.6: Biology (BIOL)*.

13.13.5.3 Preprogram Requirements

Requirements for the Major and Honours programs in Biology are two courses in elementary Biology, two courses in general Chemistry, two courses in Mathematics (as per the Freshman requirements), and two courses in Physics (mechanics and electromagnetism). Students entering into the B.A. & Sc., the Liberal program and the Biology Science Minor have the same biology, chemistry, and mathematics requirements. The physics requirements will vary according to their future direction. Note that satisfying the minimum Freshman mathematics requirements may not necessarily qualify for medical or dental school admissions requirements.

Students planning to take one of the joint majors or the Quantitative Biology Major option should consult the Undergraduate Adviser in Room W3/25, Stewart Biology Building, telephone 514-398-4109 to ensure they are taking the appropriate prerequisites.

13.13.5.4 Biology Concentrations



Note: The concentrations set out below are only guidelines for specialized training. *They do not constitute sets of requirements.*



Note: Courses used to satisfy the complementary course components of the Major program must be at the 300+ level.



Note: Please see guidelines and policies for taking courses outside Arts and Science at www.mcgill.ca/science/student/continuingstudents/bsc/outside.

Students interested in advanced studies in any biological discipline are strongly advised to develop their skills in computing as appropriate. As an aid to students wishing to specialize, key and suggested courses are listed by discipline.

13.13.5.4.1 Animal Behaviour Concentration

Understanding the diverse ways in which animals feed, mate, care for their offspring, avoid predators, select their habitats, communicate, and process information constitute the subject matter of behaviour. Several approaches are used to study these questions. Some focus on ecological consequences and determinants, some on physiological, genetic, and developmental mechanisms, others on evolutionary origins.

Key courses: BIOL 304, BIOL 305, BIOL 306, BIOL 307, BIOL 320, BIOL 331, or BIOL 334D1/BIOL 334D2 or another field course with a significant behavioural component, BIOL 373, BIOL 507.

Other suggested courses: BIOL 377, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2.

Most courses from the fields of behaviour, ecology, and evolutionary biology will be relevant for this concentration. Some courses that focus on a particular taxonomic group such as birds (Natural Resource Sciences WILD 420), amphibians and reptiles (BIOL 427), and marine mammals (BIOL 335) include a significant amount of information on behaviour.

13.13.5.4.2 Biological Diversity and Systematics

The study of biological diversity deals with the maintenance, emergence, and history of the inexhaustible variety of different kinds of organisms. It is deeply concerned with the particular characteristics of different organisms and therefore emphasizes the detailed study of particular groups and forms the basis of comparative biology. Our knowledge of diversity is organized through the study of systematics, which seeks to understand the history of life and the phylogenetic and genetic relationships of living things. Appreciation and knowledge of diversity and systematics are essential in ecology and evolutionary biology and underlie all work in resource utilization and conservation biology.

Key courses: BIOL 304, BIOL 305, BIOL 373.

Other suggested courses: BIOL 240, BIOL 310, BIOL 320, BIOL 324, BIOL 331, BIOL 334D1/BIOL 334D2, BIOL 335, BIOL 350/ENTO 350, BIOL 352, BIOL 355, BIOL 377, BIOL 418, BIOL 427, BIOL 428, BIOL 429, BIOL 463, BIOL 465, BIOL 466 or BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 515, BIOL 540, BIOL 555D1/BIOL 555D2, BIOL 569, BIOL 571, BIOL 573, BIOL 594, REDM 400, REDM 405.

Macdonald campus: ENTO 440, ENVB 313, PLNT 358, WILD 307, WILD 350, WILD 420, WILD 424.

13.13.5.4.3 Conservation Biology Concentration

Conservation biology is the study and protection of biological diversity. It is a scientific discipline closely connecting ecology and evolutionary biology with applications in public policy and management. Conservation biology focuses on keeping normal evolutionary processes working within a functional ecological context and deals with issues of how the wide variety of organisms and ecosystems can be maintained and prevented from declining. It considers population and habitat viability and complexity in the face of threats and perturbations. Cognizance of biological diversity, knowledge, and expertise in both ecology and evolutionary biology, and appreciation for the political, social, and economic contexts of the biodiversity crisis underlie all work in conservation biology.

Key courses: BIOL 308, BIOL 310, BIOL 373, BIOL 465, plus at least one of the following field courses: BIOL 331 or BIOL 334D1/BIOL 334D2 or BIOL 428 or BIOL 429 or BIOL 553.

Other suggested courses: BIOL 304, BIOL 305, BIOL 307, BIOL 324, BIOL 335, BIOL 350/ENTO 350, BIOL 355, BIOL 377, BIOL 413, BIOL 427, BIOL 434, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 510, BIOL 515, BIOL 540, BIOL 590, BIOL 594, ECON 225, ECON 326, GEOG 370, GEOG 470, REDM 400.

Macdonald campus: NRSC 437, PLNT 358, WILD 350, WILD 415, WILD 420, WILD 421.

13.13.5.4.4 Concentrations Available Within the Area of Ecology

Ecology is the study of the interactions between organisms and environment that affect distribution, abundance, and other characteristics of the organisms. A strong analytical and quantitative orientation is common to all areas of ecology, and thus students wishing to specialize in these areas are strongly encouraged

to develop their background in statistical analysis, computing, and mathematical modeling. Many of the ecology courses feature a strong analytical component, and students will find that background preparation in this area is very useful, if not essential. Ecology depends heavily on field research, and thus BIOL 331 and/or other field courses should be considered as vital to all concentrations in this area.

13135441 General and Applied Ecology Concentration

The concentration in general and applied ecology is designed to introduce the breadth of contemporary ecology, at the levels of the ecosystem, communities, and populations, and at the level of the individual organism, with an accent on the application of this science to practical problems in environmental management, and the management of resources and pests. In addition to general courses dealing with general principles, there is a selection of courses dealing with particular groups of organisms. Since it is essential to know how knowledge is obtained, the concentration includes a field course in ecology.

Key courses: BIOL 305, BIOL 308, BIOL 331 or BIOL 334D1/BIOL 334D2, BIOL 350/ENTO 350, BIOL 373, COMP 202, COMP 273.

Other suggested courses: BIOL 307, BIOL 324, BIOL 377, BIOL 418, BIOL 427, BIOL 428, BIOL 429, BIOL 432, BIOL 434, BIOL 441, BIOL 465, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 510, BIOL 515, BIOL 540, BIOL 571, BIOL 590, BIOL 594, GEOG 302, REDM 405.

Macdonald campus: PLNT 460.

13135442 Aquatic Ecology Concentration

This concentration is designed to introduce the principles of ecology as they pertain to aquatic ecosystems and aquatic biota. Since it is essential to know how knowledge is obtained, as well as what has been learned, one of the courses (Limnology) involves field work, and one of the courses (Biological Oceanography) a laboratory component, that stress the techniques used to study aquatic ecology. In addition, the concentration includes a field course in ecology. There is also a variety of courses in aquatic disciplines offered in other departments that complement the aquatic ecology courses offered in Biology.

Key courses: BIOL 305, BIOL 308, BIOL 331 or another field course, BIOL 373, BIOL 418, BIOL 432 (or ENVB 315), BIOL 441, BIOL 465, BIOL 515, COMP 202, COMP 273.

Other suggested courses: BIOL 307, BIOL 429, BIOL 434, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 540, BIOL 590, GEOG 305, GEOG 306, GEOG 308, GEOG 322, REDM 405.

13135443 Marine Biology Concentration

This concentration is designed to offer students a broad introduction to marine biology and marine ecology, which will form the basis for graduate studies in the fields, or for employment in aquatic biology and oceanography.

Key courses: BIOL 305, BIOL 308, BIOL 335, BIOL 373, BIOL 441, BIOL 515.

Other suggested courses: ATOC 512, ATOC 550, BIOL 331, BIOL 334D1/BIOL 334D2, BIOL 418, BIOL 429, BIOL 432, BIOL 434, BIOL 465, BIOL 540, BIOL 590, EPSG 542.

For students intending to proceed to graduate work, one independent studies course (BIOL 466 or BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2) is recommended. Because of the importance of numerical analyses in all fields of ecology, courses in Biometry (e.g. BIOL 373) and Computer Science (COMP 202 or COMP 273) are recommended.

13135445 Evolutionary Biology Concentration

Evolutionary biology is the study of processes that change organisms and their characteristics through time. Evolutionary biologists are concerned with adaptations of organisms and the process of natural selection.

Key courses: BIOL 304, BIOL 305, BIOL 307, BIOL 320, BIOL 324, BIOL 331, BIOL 352, BIOL 373, BIOL 377, BIOL 435, BIOL 463, BIOL 466 or BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 555D1/BIOL 555D2, BIOL 569, BIOL 570, BIOL 571, BIOL 573, BIOL 585, BIOL 594.

Other suggested courses in Organismal Biology: BIOL 240, BIOL 335, BIOL 350/ENTO 350, BIOL 355, BIOL 427, BIOL 428, BIOL 463.

Macdonald campus: PLNT 358, WILD 420.

Genetics and Development: BIOL 300, BIOL 303.

Ecology and Behaviour: BIOL 309, BIOL 429, BIOL 434, BIOL 507, BIOL 515, BIOL 590, REDM 405.

13135446 Human Genetics Concentration

The courses recommended for students interested in human genetics are designed to offer a broad perspective in this rapidly advancing area of biology. Genetics is covered at all levels of organization (the gene, the chromosome, the cell, the organism, and the population), using pertinent examples from all species, but with special emphasis on humans.

Key courses: BIOL 301, BIOL 370, BIOL 373, BIOL 416, BIOL 520, BIOL 568, BIOL 575.

Other suggested courses: BIOC 311, BIOL 314, BIOL 377, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, CHEM 203 or CHEM 204, and CHEM 214, CHEM 222, MIMM 314.

13135447 Molecular Genetics and Development Concentration

The discoveries that have fuelled the ongoing biomedical and biotechnology revolution have been derived from the fusion of a number of fields of biological investigation, including molecular biology, genetics, cellular and developmental biology, and biochemistry. A substantial amount of this research has been conducted upon model eukaryotic organisms, such as yeast, the fruit fly (*Drosophila*), the nematode (*C. elegans*), and the mustard weed (*Arabidopsis*). In the molecular genetics and development concentration, students will obtain a comprehensive understanding of how these “model eukaryotes” have advanced our knowledge of the mechanisms responsible for cellular function and organismal development. Graduates from this concentration will be well prepared to pursue higher degrees in the fields of basic biology, biotechnology, and biomedicine or to assume a wide variety of positions in government, universities, and medical and industrial institutions.

Key courses: BIOL 300, BIOL 301, BIOL 303, BIOL 373, BIOL 569; CHEM 203 or CHEM 204 combined with CHEM 214, CHEM 212, CHEM 222.

Other suggested courses: BIOL 313, BIOL 314, BIOL 316, BIOL 416, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, BIOL 518, BIOL 520, BIOL 524, BIOL 544.

13.13.5.48 Neurobiology Concentration

Nervous systems are perhaps the most complex entities in the natural world, being composed of up to trillions of interconnected cells that must operate in a coordinated manner to produce behaviour that can range from the mundane (e.g., regulation of heart rate) to the magnificent (e.g., musical composition). The neurobiology discipline, one of the fastest growing areas of modern biology, seeks to understand the evolution, development, and operation of nervous systems. The neurobiology concentration addresses these issues by examining neural structure, function, and development at levels of organization that range from the molecular to the organismal. As a result of exposure to a wide range of experimental and intellectual approaches, students receive a sound, broadly based education in biology.

Key courses: BIOL 306, BIOL 320, BIOL 373, BIOL 389, BIOL 507, BIOL 514, BIOL 530, BIOL 532, BIOL 588.

Other suggested courses: ANAT 321, ANAT 322, BIOL 300, BIOL 303, BIOL 466, BIOL 467, BIOL 468D1/BIOL 468D2, BIOL 469D1/BIOL 469D2, NEUR 310, NSCI 200, NSCI 201, PHAR 562, PHGY 311, PHGY 314, PHGY 425, PHGY 451, PHGY 556, PSYC 311, PSYC 318, PSYC 342, PSYC 410, PSYC 470, PSYT 455, PSYT 500.

13.13.5.5 Biology (BIOL) Faculty

Chair

Graham A.C. Bell

Emeritus Professors

A. Howard Bussey; B.Sc., Ph.D.(Brist.), F.R.S.C.

Robert L. Carroll; B.S.(Mich.), M.A., Ph.D.(Harv.), F.R.S.C.

Ronald Chase; A.B.(Stan.), Ph.D.(MIT)

Jacob Kalff; M.S.A.(Tor.), Ph.D.(Ind.)

Donald L. Kramer; B.Sc.(Boston Coll.), Ph.D.(Br. Col.)

John B. Lewis; B.Sc., M.Sc., Ph.D.(McG.)

Professors

Graham A.C. Bell; B.A., D.Phil.(Oxf.), F.R.S.C. (*James McGill Professor*)

Gregory G. Brown; B.Sc.(Notre Dame), Ph.D.(CUNY)

Lauren Chapman; B.Sc.(Alta.), Ph.D.(McG.) (*Canada Research Chair in Respiratory Ecology and Aquatic Conservation*)

Rajinder S. Dhindsa; B.Sc., M.Sc.(Punj.), Ph.D.(Wash.)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.) (*Canada Research Chair in Biodiversity Science*)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva) (*Strathcona Chair in Zoology; Robert Archibald & Catherine Louise Campbell Chair in Developmental Biology*)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT) (*James McGill Professor*) (*Associate Member in Anatomy & Cell Biology*)

Martin J. Lechowicz; B.A.(Mich. St.), M.S., Ph.D.(Wisc.)

Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.) (*on sabbatical*)

Gerald S. Pollack; M.A., Ph.D.(Princ.)

Catherine Potvin; B.Sc., M.Sc.(Montr.), Ph.D.(Duke)

Neil M. Price; B.Sc.(New Br.), Ph.D.(Br. Col.)

Daniel J. Schoen; B.Sc., M.Sc.(Mich.), Ph.D.(Calif.) (*Macdonald Professor of Botany*)

Associate Professors

Ehab Abouheif; M.Sc.(C'dia), Ph.D.(Duke) (*Canada Research Chair in Evolutionary Developmental Biology*)

Thomas Bureau; B.Sc.(Calif.), Ph.D.(Texas) (*William Dawson Scholar*)

Melania Cristescu; B.Sc., M.Sc.(Ovidius Univ. Constanta, Romania), Ph.D.(Guelph)

Joseph A. Dent; B.Sc., Ph.D.(Colo.)

François Fagotto; Ph.D.(Neuchâtel) (*Canada Research Chair in Cell Biology*)

Gregor Fussmann; Dipl.(Berlin), Ph.D.(Max Planck Institute)

Associate Professors

Irene Gregory-Eaves; B.Sc.(Vic., BC), M.Sc., Ph.D.(Qu.)
 Frédéric Guichard; B.Sc.(Montr.), Ph.D.(Laval)
 Paul Harrison; B.Sc.(NUI), Ph.D.(Lond.)
 Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Redpath Museum*)
 Rudiger Krahe; Dipl.(Alexander Univ.), Ph.D.(Humboldt)
 Brian Leung; B.Sc.(Br. Col.), Ph.D.(Car.)
 Laura Nilson; B.A.(Colgate), Ph.D.(Yale)
 Simon Reader; B.A.(Camb.), Ph.D.(Camb.)
 Richard Roy; B.Sc.(Bishop's), Ph.D.(Laval)
 Frieder Schoeck; Dipl.(Erhagen), Ph.D.(Max Planck Institute)
 Jacalyn Vogel; M.Sc.(E. Ill.), Ph.D.(Kansas) (*Canadian Pacific Chair in Biotechnology*)
 Tamara Western; B.Sc.(Dal.), Ph.D.(Br. Col.)
 Monique Zetka; B.Sc., Ph.D.(Br. Col.)

Assistant Professors

Gary Brouhard; M.S.E., Ph.D.(Mich.) (*Associate Member in Physics*)
 David Dankort; B.Sc., Ph.D.(McM.)
 Jonathan Davies; M.Sc.(Cape Town), Ph.D.(Imperial Coll., Lond.)
 Nam-Sung Moon; B.Sc., Ph.D.(McG.)
 Rodrigo Reyes Lamothe; M.Sc.(C'dia), Ph.D.(Oxf.)
 Jon Sakata; B.A.(C'nell), Ph.D.(Texas-Austin, Institute for Neuroscience)
 Alanna Watt; B.Sc.(C'dia), Ph.D.(Brandeis)
 Sarah Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin)
 Hugo Zheng; M.Sc.(Helsinki), Ph.D.(Oxf. Brookes) (*on sabbatical*)

Associate Members

Anatomy and Cell Biology: Craig Mandato
 Anthropology: Colin Chapman
 Biochemistry: Maxime Bouchard
 Centre for Research in Neuroscience: Sal Carbonetto, Yong Rao, Donald Van Meyel
 MCH: Feige Kaplan, Rima Rozen
 Medical Genetics, Chair: David Rosenblatt
 MNI: Kenneth Hastings, Stefano Stifani
 Physics: Paul Francois
 Redpath Museum: Rowan Barrett, David Green, Hans Larsson, Virginie Millien, Anthony Ricciardi
 RVH: Hugh J. Clarke, Daniel Dufort, Teruko Taketo

Adjunct Professors

Centre National de la Recherche Scientifique (CNRS): Michel Loreau
 Concordia University: Malcolm S. Whiteway
 IRCM: Frédéric Charron, Artur Kania, Marie Kmita
 Picchio International Inc.: Francesco Bellini
 STRI: Eldredge Bermingham, Rachel Collin, Hector Guzman, Edward Allen Herre, Haris Lessios, William Owen McMillan, Mark Torchin
 Université de Montréal: Pierre Drapeau

13.13.5.6 Bachelor of Science (B.Sc.) - Minor Biology (25 credits)

The Minor Biology may be taken in conjunction with any primary program in the Faculty of Science (other than programs offered by the Department of Biology). Students are advised to consult the undergraduate adviser in Biology as early as possible (preferably during their first year), in order to plan their course selection. See Nancy Nelson, Stewart Biology Building, W3/25, 514-398-4109, email: nancy.nelson@mcgill.ca.

6 credits of overlap are allowed between the Minor and the primary program.

Required Courses (15 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

Complementary Courses (10 credits)

Students complete a minimum of 9 or a maximum of 10 complementary course credits depending on their choice of complementary courses.

To include:

CHEM 212*	(4)	Introductory Organic Chemistry 1

Plus an additional two courses from the Biology department's course offerings, at the 300 level or above.

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate course, to be approved by the Adviser.

13.13.5.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biology (47 credits)

Students may complete this program with a minimum of 45 credits or a maximum of 47 credits depending on their choice of complementary courses.

Required Courses (19 credits)

* If a student has already taken CHEM 212 or its equivalent, the 4 credits can be made up with a 3-credit complementary.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212*	(4)	Introductory Organic Chemistry 1

Complementary Courses (28 credits)

Students complete a minimum of 27 credits or a maximum of 28 complementary course credits selected as follows:

3 or 4 credits selected from:

BIOL 206	(3)	Methods in Biology of Organisms
BIOL 301	(4)	Cell and Molecular Laboratory

24 credits of Biology courses

9 credits of which, in consultation with the Program Adviser, can be replaced with appropriate Science courses from other departments.

No more than 6 of the 24 credits can be taken at the 200 level.

13.13.5.8 Bachelor of Science (B.Sc.) - Major Biology (59 credits)

The Major requires 58 or 59 credits depending on a student's choice of complementary courses.

Students in the Major program are permitted to take a maximum of 9 credits of research courses.

U1 Required Courses (18 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

U2 or U3 Required Course (4 credits)

BIOL 301	(4)	Cell and Molecular Laboratory

Complementary Courses (37 credits)

Students complete a minimum of 36 credits or maximum of 37 credits selected as follows:

U1 Complementary Course

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser.

CHEM 212*	(4)	Introductory Organic Chemistry 1

U2 or U3 Complementary Courses

12 credits selected from:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 308	(3)	Ecological Dynamics

Other Complementary Courses

21-24 credits selected in consultation with the Program Adviser. All courses must be at the 300 level or higher; they are to include Biology courses of which at most three courses may be substituted, given the Adviser's consent, with science courses offered by other departments. Unless required by the Major, prerequisites for these courses must be taken as electives.

13.13.5.9 Bachelor of Science (B.Sc.) - Major Biology - Quantitative Biology (73 credits)

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological questions. The Quantitative Biology option has two streams: an ecology and evolutionary biology stream, and a physical biology stream. Both streams provide a balance of theory and experimental components.

Students may complete this program with a minimum of 69 credits or a maximum of 73 credits depending on whether MATH 222 is completed.

Advising notes for U0 students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (42 credits)**Biology (17 credits)**

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 395	(1)	Quantitative Biology Seminar 1
BIOL 495	(1)	Quantitative Biology Seminar 2

Chemistry (4 credits)

* Students who have taken the equivalent of CHEM 212 can make up the credits with a complementary CHEM course in consultation with a stream adviser.

CHEM 212*	(4)	Introductory Organic Chemistry 1

Computer Science (3 credits)

3 credits from:

COMP 202	(3)	Foundations of Programming
COMP 250	(3)	Introduction to Computer Science

Math

9-12 credits from

MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability

* For students who have NOT taken MATH 150 and MATH 151.

Physics (6 credits)

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves

Course Requirements for Quantitative Biology Streams (22 credits)

21 or 22 credits from one of the following two streams:

Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)

Biology

BIOL 206	(3)	Methods in Biology of Organisms
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Field Courses - 3 credits from the following list or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 432	(3)	Limnology

9 credits chosen from the following list, of which 6 credits must be at the 400 level or above:

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
BIOL 373	(3)	Biometry
BIOL 434	(3)	Theoretical Ecology
BIOL 510	(3)	Advances in Community Ecology
BIOL 594	(3)	Advanced Evolutionary Ecology

Stream 2: Physical Biology (22 credits)

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 319*	(3)	Introduction to Biophysics
PHYS 319*	(3)	Introduction to Biophysics
PHYS 333	(3)	Thermal and Statistical Physics

* Students may take BIOL 319 OR PHYS 319

300-level complementary courses: 6 credits from the following:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology

500-level complementary courses: 6 credits from the following:

BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 551	(3)	Principles of Cellular Control
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology

Complementary Courses

Quantitative Biology - Theoretical Ecology and Evolutionary Biology, and Physical Biology streams

9 credits from the following:

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

BIOL 466	(3)	Independent Research Project 1
COMP 206	(3)	Introduction to Software Systems

COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 350*	(3)	Numerical Computing
COMP 364	(3)	Computer Tools for Life Sciences
MATH 314	(3)	Advanced Calculus
MATH 317*	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 348	(3)	Topics in Geometry
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes

* Students may take COMP 350 OR MATH 317.

Recommendations for Physical Biology stream

CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 514	(3)	Biophysical Chemistry
PHYS 242*	(2)	Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 413	(3)	Physical Basis of Physiology
PHYS 434	(3)	Optics
PHYS 446	(3)	Majors Quantum Physics
PHYS 534	(3)	Nanoscience and Nanotechnology

* PHYS 242 is required for PHYS 342 and PHYS 434.

Recommendations for Theoretical Ecology and Evolutionary Biology stream

MATH 204	(3)	Principles of Statistics 2
MATH 242	(3)	Analysis 1
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2
MATH 423	(3)	Regression and Analysis of Variance
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 333*	(3)	Thermal and Statistical Physics

* PHYS 333 is now required for the Physical Biology stream

13.13.5.10 Bachelor of Science (B.Sc.) - Major Biology and Mathematics (76 credits)

This program is built on a selection of mathematics and biology courses that recognize mathematical biology as a field of research, with three streams within biology: Ecology and Evolutionary Ecology, Molecular Evolution, and Neurosciences.

Advising notes for UO students:

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the program.

This program is recommended for U1 students achieving a CGPA of 3.2 or better, and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (34 credits)

* If a student has already taken CHEM 212 or its equivalent, the credits can be made up with a complementary course in consultation with the Program Adviser.

** Students who have sufficient knowledge in a programming language should take COMP 250 (3 credits) "Introduction to Computer Science" rather than COMP 202.

*** Students may take either MATH 223 or MATH 247.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 247***	(3)	Honours Applied Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability

Complementary Courses (42 credits)

For the 42 credits, students complete 24 credits of BINF, BIOL, NEUR, PHGY, PSYC courses including one of three streams (Ecology and Evolutionary Ecology, Molecular Evolution, Neurosciences) and 18 credits of MATH courses.

Math or Biology Research Course

Note: Students selecting a BIOL course count this toward their 24 credits of BINF, BIOL, NEUR, PHGY, PSYC courses while students selecting a MATH course count this toward their 18 credits of MATH courses.

3 credits from the following Math or Biology research courses:

BIOL 466	(3)	Independent Research Project 1
BIOL 467	(3)	Independent Research Project 2
MATH 410	(3)	Majors Project

Of the remaining complementary courses, at least 6 credits must be at the 400 level or above.

Math Courses

15 credits (if MATH 410 was selected as a research course) or 18 credits of MATH courses chosen from Sequence 1 or 2 and from "Remaining Math Courses" as follows:

Sequence 1: Theory

12 credits from the following courses:

* Students may take either MATH 317 or MATH 327.

MATH 314	(3)	Advanced Calculus
MATH 317*	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations

MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327*	(3)	Matrix Numerical Analysis

Sequence 2: Statistics

9 credits from the following:

MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance
MATH 447	(3)	Introduction to Stochastic Processes

Remaining Math Courses

Remaining 3-9 credits of MATH courses may be chosen from any of the two preceding sequences and/or from the following list:

MATH 204	(3)	Principles of Statistics 2
MATH 340	(3)	Discrete Structures 2
MATH 437	(3)	Mathematical Methods in Biology
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

BIOL, NEUR, PHGY, PHYS, PSYC Courses

21 credits (if BIOL course was selected as a research course) or 24 credits of BIOL, NEUR, PHGY, PHYS, PSYC courses including one of three streams.

Note: Some courses in the streams may have prerequisites.

Ecology and Evolutionary Ecology Stream

At least 15 credits selected as follows:

3 credits of:

BIOL 206	(3)	Methods in Biology of Organisms

3 credits from the following field courses or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	Applied Tropical Ecology
BIOL 432	(3)	Limnology

At least 9 credits chosen from the following list, of which 6 credits must be at the 400 level or above:

BIOL 202	(3)	Basic Genetics
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
BIOL 434	(3)	Theoretical Ecology

BIOL 435	(3)	Natural Selection
BIOL 466	(3)	Independent Research Project 1
BIOL 467	(3)	Independent Research Project 2
BIOL 468	(6)	Independent Research Project 3
BIOL 585	(3)	Game Theory and Evolutionary Dynamics
BIOL 590	(3)	Linking Community and Ecosystem Ecology
BIOL 594	(3)	Advanced Evolutionary Ecology

Molecular Evolution Stream

At least 16 credits selected as follows:

7 credits from:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory

At least 9 credits selected from the following list, of which 6 credits must be at the 400 level or above.

* Students may take either BINF 511 or BIOL 592.

BINF 511*	(3)	Bioinformatics for Genomics
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 319	(3)	Introduction to Biophysics
BIOL 435	(3)	Natural Selection
BIOL 466	(3)	Independent Research Project 1
BIOL 467	(3)	Independent Research Project 2
BIOL 468	(6)	Independent Research Project 3
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 569	(3)	Developmental Evolution
BIOL 592*	(3)	Integrated Bioinformatics

Neurosciences Stream

At least 15 credits selected as follows:

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour

At least 12 credits selected from:

BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 466	(3)	Independent Research Project 1
BIOL 467	(3)	Independent Research Project 2
BIOL 468	(6)	Independent Research Project 3

BIOL 530	(3)	Advances in Neuroethology
PHGY 314	(3)	Integrative Neuroscience
PHGY 425	(3)	Analyzing Physiological Systems
PSYC 427	(3)	Sensorimotor Behaviour

Remaining BINF, BIOL, NEUR, PHGY, PSYC

For the remaining BINF, BIOL, NEUR, PHGY, PSYC complementary course credits, if any, students top up their credits to the necessary 21-24 credits with any course listed in the above three streams. Other relevant courses may be substituted with the approval of the Program Adviser.

13.13.5.11 Bachelor of Science (B.Sc.) - Honours Biology (75 credits)

Students may complete this program with a minimum of 71 credits or a maximum of 75 credits depending on their choice of complementary courses.

The Honours program in Biology is designed expressly as a preparation for graduate studies and research, and provides students with an enriched training in biology and some research experience in a chosen area. Acceptance into the Honours program at the end of U2 requires a CGPA of 3.50 and approval of a 9- or 12-credit Independent Studies proposal (see listing of BIOL 479 and BIOL 480 for details). Students also complete a 4-credit Honours Seminar course, BIOL 499. For an Honours degree, a minimum CGPA of 3.50 in the U3 year and adherence to the program as outlined below are the additional requirements.

U1 Required Courses (18 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

U1 Complementary Course (4 credits)

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser.

CHEM 212*	(4)	Introductory Organic Chemistry 1

U2 or U3 Required Courses (7 credits)

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 373	(3)	Biometry

U2 and U3 Complementary Courses (33 credits)

Students who take CHEM 212 in U1 complete 30 credits and those exempted from CHEM 212 complete 33 credits selected as follows:

12 credits selected from:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 308	(3)	Ecological Dynamics

18-21 credits in Biology at the 300 level or higher, of which 9 credits may be from other Science departments, with approval of the Adviser.

U3 Required Courses (4 credits)

BIOL 499D1	(2)	Honours Seminar in Biology
BIOL 499D2	(2)	Honours Seminar in Biology

U3 Complementary Courses (12 credits)

9-12 credits selected from:

BIOL 479D1	(4.5)	Honours Research Project 1
BIOL 479D2	(4.5)	Honours Research Project 1
BIOL 480D1	(6)	Honours Research Project 2
BIOL 480D2	(6)	Honours Research Project 2

13.13.5.12 Biology (BIOL) Related Programs and Study Semesters

13135121 Joint Major in Computer Science and Biology

For more information, see [section 13.13.9.11: Bachelor of Science \(B.Sc.\) - Major Computer Science and Biology \(73 credits\)](#).

13135122 Panama Field Study Semester

The program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.6: Panama Field Study Semester](#). You can also visit the following website for details: www.mcgill.ca/science/student/internships-field/field.

13135123 Africa Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester; see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Field Studies* > *Undergraduate* > [section 8.3: Africa Field Study Semester](#). You can also visit the following website for details: www.mcgill.ca/science/student/internships-field/field.

13.13.6 Biotechnology (BIOT)

13.13.6.1 Location

Sheldon Biotechnology Centre
Lyman Duff Building
3775 University Street
Montreal, Quebec H3A 2B4

Telephone: 514-398-3998

13.13.6.2 About Biotechnology

Biotechnology, the science of understanding, selecting, and promoting useful organisms and specific gene products for commercial and therapeutic purposes, is the success story of this generation. It demands a broad comprehension of biology and engineering as well as detailed knowledge of at least one basic subject such as molecular genetics, protein chemistry, microbiology, or chemical engineering.

The Minor in Biotechnology is offered by the Faculties of Engineering and of Science, and students combine the Minor with the regular departmental Major (or Honours or Faculty) program. The Minor emphasizes an area relevant to biotechnology which is complementary to the main program.

Students should identify their interest in the Biotechnology Minor to their departmental academic adviser and to the program supervisor of the Minor and, at the time of registration for the U2 year, should declare their intent to embark on the Minor. Before registering for the Minor, and with the agreement of the academic adviser, students must submit their course list to the program supervisor, who will certify that the student's complete program conforms to the requirements for the Minor. Students should ensure that they will have fulfilled the prerequisite requirements for the courses selected.

The course BIOT 505 *Selected Topics in Biotechnology* is considered as a course taught by the Faculty of Science.

13.13.6.3 General Regulations

To obtain the Minor in Biotechnology, students must:

- satisfy the requirements both for the departmental program and for the Minor;
- complete 24 credits, 18 of which must be exclusively for the Minor program;
- obtain a grade of C or better in the courses presented for the Minor.

13.13.6.4 Biotechnology (BIOT) Faculty**Program Supervisor**

Jacalyn Vogel; M.Sc.(E. Ill.), Ph.D.(Kansas) (*Canadian Pacific Chair in Biotechnology*)

13.13.6.5 Bachelor of Science (B.Sc.) - Minor Biotechnology (for Science Students) (24 credits)

To obtain the Minor Biotechnology, Science students must:

- a) satisfy both the requirements for the departmental program and for the Minor;
- b) complete 24 credits, 18 of which must be exclusively for the Minor program.*

* Approved substitutions must be made for any of the required courses which are part of the student's main program.

Required Courses (15 credits)

* Students may take either BIOL 201 or BIOC 212.

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOT 505	(3)	Selected Topics in Biotechnology
MIMM 211	(3)	Introductory Microbiology

Complementary Courses (9 credits)

9 credits selected from courses outside the department of the student's main program. Students may select three courses from one of the lists below, or may choose three alternate courses with adviser approval.

Biomedicine

ANAT 541	(3)	Cell and Molecular Biology of Aging
EXMD 504	(3)	Biology of Cancer
PATH 300	(3)	Human Disease

Chemical Engineering

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 474	(3)	Biochemical Engineering

Chemistry

CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 552	(3)	Physical Organic Chemistry

General

FACC 300	(3)	Engineering Economy

Immunology

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 503	(3)	Immunochemistry
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 414	(3)	Advanced Immunology
PHGY 513	(3)	Cellular Immunology

Management

ECON 208	(3)	Microeconomic Analysis and Applications
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Finance 1
MGCR 352	(3)	Marketing Management 1
MGCR 472	(3)	Operations Management

Microbiology

MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Molecular Biology (Biology)

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 551	(3)	Principles of Cellular Control

Molecular Biology (Biochemistry)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
PSYT 455	(3)	Neurochemistry

Physiology

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

Pollution

CHEE 593	(3)	Industrial Water Pollution Control
CIVE 225	(4)	Environmental Engineering
CIVE 430	(3)	Water Treatment and Pollution Control

13.13.6.6 Biotechnology (BIOT) Related Programs**13.13.6.6.1 Program for Students in the Faculty of Engineering**

See *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > [section 6.12.10.3: Biotechnology Minor](#)* for details.

13.13.7 Chemistry (CHEM)**13.13.7.1 Location**

Otto Maass Chemistry Building
801 Sherbrooke Street West
Montreal, Quebec H3A 0B8

Website: www.chemistry.mcgill.ca

Departmental Office: Room 322
Telephone: 514-398-6999

Student Advisory Office: Room 314
Website: www.chemistry.mcgill.ca/advising/index.htm

13.13.7.2 Office for Science and Society

The Office for Science and Society is dedicated to the promotion of critical thinking and the presentation of practical scientific information to the public, educators, and students in an accurate and responsible fashion. The Office answers queries from the public as well as from the media, with a view toward establishing scientific accuracy. The Office also offers a variety of educational and interesting presentations on scientific topics and its members contribute to a number of courses under the umbrella of “The World of Chemistry.”

Director

Joseph A. Schwarcz; B.Sc., Ph.D.(McG.)

Members

Ariel Fenster; L.Sc., D.E.A.(Paris), Ph.D.(McG.)

David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), F.C.I.C. (*William C. Macdonald Professor of Chemistry*)

13.13.7.3 About Chemistry

Chemistry is both a pure science, offering a challenging intellectual pursuit, and an applied science whose technology is of fundamental importance to the economy and society. Modern chemists seek an understanding of the structure and properties of atoms and molecules to predict and interpret the properties and transformations of matter and the energy changes that accompany those transformations. Many of the concepts of physics and mathematics are basic to chemistry, while chemistry is of fundamental importance to many other disciplines such as the biological and medical sciences, geology, metallurgy, etc.

A degree in chemistry leads to a wide variety of professional vocations. The large science-based industries (petroleum refining, plastics, pharmaceuticals, etc.) all employ chemists in research, development, and quality control. Many federal and provincial departments and agencies employ chemists in research and testing laboratories. Such positions are expected to increase with the currently growing concern for the environment and for consumer protection. A background in chemistry is also useful as a basis for advanced study in other related fields, such as medicine and the biological sciences. For a business career, a B.Sc. in Chemistry can profitably be combined with a master's degree in Business Administration, or a study of law for work as a patent lawyer or forensic scientist.

Chemistry courses at the university level are traditionally divided into four areas of specialization: 1) organic chemistry, dealing with the compounds of carbon; 2) inorganic chemistry, concerned with the chemistry and compounds of elements other than carbon; 3) analytical chemistry, which deals with the identification of substances and the quantitative measurement of their compositions; and 4) physical chemistry, which treats the physical laws, kinetics, and energetics governing chemical reactions, behaviour of materials, and molecular structure. Naturally, there is a great deal of overlap between these different areas, and the boundaries are becoming increasingly blurred. After a general course at the introductory level, courses in organic, inorganic, analytical, and

physical chemistry are offered throughout the university years. Since chemistry is an experimental science, laboratory classes accompany most undergraduate courses. In addition, courses are offered in polymer, theoretical, green, nano, and biological chemistry to upper-year undergraduates.

There are two main programs in the Department of Chemistry: Honours and Major. The Honours program is intended primarily for students wishing to pursue graduate studies in chemistry. While the Major program is somewhat less specialized, it is still recognized as sufficient training for a career in chemistry. It can also lead to graduate studies although an additional Qualifying year may be necessary. There are also a number of B.Sc. Liberal and other programs available. Interested students may inquire about these at the Student Advisory Office, Room 314, Otto Mass Chemistry Building, or see www.chemistry.mcgill.ca/advising/index.htm.

13.13.7.4 Chemistry (CHEM) Faculty

Chair

R. Bruce Lennox (*until May 31, 2013*)

Masad Damha (*as of June 2013*)

Emeritus Professors

Tak-Hang Chan; B.Sc.(Tor.), M.A., Ph.D.(Princ.), F.C.I.C., F.R.S.C. (*Tomlinson Emeritus Professor of Chemistry*)

Adi Eisenberg; B.S.(Worcester Polytech.), M.A., Ph.D.(Princ.), F.C.I.C. (*Otto Maass Professor of Chemistry*)

Byung Chan Eu; B.Sc.(Seoul), Ph.D.(Brown)

Denis F.R. Gilson; B.Sc.(Univ. Coll. Lond.), M.Sc., Ph.D.(Br. Col.), F.C.I.C., F.R.S.C. (UK)

John F. Harrod; B.Sc., Ph.D.(Birm.) (*Tomlinson Emeritus Professor of Chemistry*)

Alan S. Hay; B.Sc., M.Sc.(Alta.), Ph.D.(Ill.), D.Sc.(Alta.), F.R.S., F.N.Y., Acad.Sci. (*Tomlinson Emeritus Professor of Chemistry*)

Robert H. Marchessault; B.Sc.(Loyola), Ph.D.(McG.), D.Sc.(C'dia), F.R.S.C. (*E.B. Eddy Professor of Industrial Chemistry*)

Mario Onyszczuk; B.Sc.(McG.), M.Sc.(W. Ont.), Ph.D.(McG.), Ph.D.(Cant.)

Donald Patterson; M.Sc.(McG.), Doc.(St-Etienne) (*Otto Maass Emeritus Professor of Chemistry*)

Arthur S. Perlin; M.Sc., Ph.D.(McG.), F.R.S.C. (*E.B. Eddy Emeritus Professor of Industrial Chemistry*)

William C. Purdy; B.A.(Amh.), Ph.D.(MIT), F.C.I.C. (*William C. Macdonald Emeritus Professor of Chemistry*)

Leon E. St-Pierre; B.Sc.(Alta.), Ph.D.(Notre Dame), F.C.I.C.

Michael A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.), F.C.I.C.

Professors

Bruce Arndtsen; B.A.(Car. Coll.), Ph.D.(Stan.) (*William Dawson Scholar*)

D. Scott Bohle; B.A.(Reed College), M.Phil., Ph.D.(Auck.) (*CRC Tier I Chair*)

David H. Burns; B.Sc.(Puget Sound), Ph.D.(Wash.)

Ian S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C., C.Sci., C.Chem., F.R.S.C. (UK)

Masad J. Damha; B.Sc., Ph.D.(McG.) (*James McGill Professor*)

Derek G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), F.C.I.C. (*NSERC Paprican Chair*)

David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), F.C.I.C. (*William C. Macdonald Professor of Chemistry*)

R. Bruce Lennox; B.Sc., M.Sc., Ph.D.(Tor.) (*Tomlinson Professor of Chemistry*)

C.J. Li; B.Sc.(Zhengzhou), M.Sc.(C.A.S.), Ph.D.(McG.) (*CRC Tier I Chair*)

David Ronis; B.Sc.(McG.), Ph.D.(MIT)

Eric D. Salin; B.Sc.(Calif.), Ph.D.(Ore. St.)

Bryan C. Sanctuary; B.Sc., Ph.D.(Br. Col.)

Hanadi Sleiman; B.Sc.(A.U.B.), Ph.D.(Stan.) (*William Dawson Scholar*)

Theo G.M. van de Ven; Kand. Doc.(Utrecht), Ph.D.(McG.) (*NSERC Paprican Chair*)

Associate Professors

Mark P. Andrews; B.Sc., M.Sc., Ph.D.(Tor.)

Parisa Ariya; B.Sc., Ph.D.(York) (*William Dawson Scholar*) (*joint appt. with Atmospheric & Oceanic Sciences*)

Associate Professors

Karine Auclair; B.Sc.(UQAC), Ph.D.(Alta.)
 Christopher J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)
 Gonzalo Cosa; B.Sc.(Rio Cuarto), Ph.D.(Ott.)
 William C. Galley; B.Sc.(McG.), Ph.D.(Calif.)
 James Gleason; B.Sc.(McG.), Ph.D.(Virg.)
 Ashok K. Kakkar; B.Sc.(Punjab), M.Sc.(H.P.U.), Ph.D.(Wat.)
 Patanjali Kambhampati; B.A.(Car. Coll.), Ph.D.(Texas)
 Anthony Mittermaier; B.Sc.(Guelph), Ph.D.(Tor.)
 Nicolas Moitessier; B.Sc., M.Sc., Ph.D.(Nancy)
 Dmitrii Perepichka; B.S., M.Sc., Ph.D.(Ukraine)
 Joan F. Power; B.Sc., Ph.D.(C'dia)
 Linda Reven; B.A.(Car. Coll.), Ph.D.(Ill.)
 Youla Tsantrizos; B.Sc., M.Sc., Ph.D.(McG.)
 Paul Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.) (*joint appt. with Physics*)

Assistant Professors

Amy S. Blum; B.S.(Princ.), M.S., Ph.D.(Wash.)
 Tomislav Friš i ; B.Sc.(Zagreb), Ph.D. (U. Iowa)
 Jean-Philip Lumb; B. A. (C'nell), Ph.D.(Calif., Berk.)
 Audrey Moores; B.Sc., M.Sc., Ph.D.(École Poly., Palaiseau, Fr.) (*Faculty of Science Tier II Chair*)
 Bradley Siwick; B.A.Sc., M.Sc., Ph.D.(Tor.) (*joint appt. with Physics*)

Associate Members

James A. Finch (*Mining & Metallurgical Engineering*)
 P. Grütter (*Physics*)
 Esther Schirmacher (*Medicine*)
 Ralf Schirmacher (*Medicine*)

Adjunct Professors

Yvan Guindon; B.Sc., Ph.D.(Montr.), F.C.I.C., F.R.S.C.
 Christian Reber; B.Sc., Ph.D.(Berne)
 Ivor Wharf; B.Sc., Ph.D.(Lond.), A.R.C.S., D.I.C.
 Robert Zamboni; B.Sc., Ph.D.(McG.)

13.13.7.5 Bachelor of Science (B.Sc.) - Minor Chemistry (18 credits)**Required Courses (18 credits)**

* Denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1

CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

13.13.7.6 Bachelor of Science (B.Sc.) - Minor Chemical Engineering (24 credits)

A Chemical Engineering Minor will be of interest to Chemistry students who wish to study the problems of process engineering and its related subjects. A student completing this Minor will be able to make the important link between molecular sciences and industrial processing. This Minor will not provide Professional Engineering accreditation.

Required Courses (6 credits)

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2

Complementary Courses (18 credits)

At least one of:

CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 314	(3)	Fluid Mechanics

with the remainder chosen from the following:

* Students select CHEE 392 and CHEE 393

** Students select either CHEE 494 or CHEE 495

CHEE 230	(3)	Environmental Aspects of Technology
CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 380	(3)	Materials Science
CHEE 392*	(4)	Project Laboratory 1
CHEE 393*	(5)	Project Laboratory 2
CHEE 438	(3)	Engineering Principles in Pulp and Paper Processes
CHEE 494**	(3)	Research Project and Seminar 1
CHEE 495**	(4)	Research Project and Seminar 2
CHEE 592	(3)	Industrial Air Pollution Control
CHEE 593	(3)	Industrial Water Pollution Control
MATH 314	(3)	Advanced Calculus

13.13.7.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - Biological (47 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Basic Core Courses (26 credits)

The required courses in this program consist of 26 credits in chemistry and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at CEGEP. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

The Liberal Program: Core Science Component in Chemistry - Biological Option is not certified by the Ordre des chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 381	(3)	Inorganic Chemistry 2
MATH 222**	(3)	Calculus 3

Biological Option Courses (21 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 502	(3)	Advanced Bio-Organic Chemistry

13.13.7.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - General (49 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Basic Core Courses (26 credits)

The required courses in this program consist of 26 credits in chemistry and mathematics listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

The Liberal Program: Core Science Component Chemistry - General Option is not certified by the Ordre des chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 381	(3)	Inorganic Chemistry 2
MATH 222**	(3)	Calculus 3

General Option Courses (20 credits)

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

Complementary Course (3 credits)

3 credits from:

CHEM 355	(3)	Molecular Properties and Structure 2

13.13.7.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - Physical (47 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Basic Core Courses (26 credits)

The required courses in this program consist of 26 credits in chemistry and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at CEGEP. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

The Liberal Program: Core Science Component Chemistry - Physical Option is not certified by the Ordre des chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is also strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1

CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 381	(3)	Inorganic Chemistry 2
MATH 222**	(3)	Calculus 3

Physical Option Courses (21 credits)

CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 393	(2)	Physical Chemistry Laboratory 2
COMP 208	(3)	Computers in Engineering
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

13.13.7.10 Bachelor of Science (B.Sc.) - Major Chemistry (59 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (53 credits)

The required courses in this program consist of 53 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory

CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (6 credits)

6 credits of additional Chemistry (CHEM) courses at the 300 level or higher.

13.13.7.11 Bachelor of Science (B.Sc.) - Major Chemistry - Atmosphere and Environment (63 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (54 credits)

The required courses in this program consist of 54 credits in chemistry and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry

CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (9 credits)

3 credits, one of:

CHEM 419	(3)	Advances in Chemistry of Atmosphere
CHEM 462	(3)	Green Chemistry

3 credits, one of:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
CHEM 532	(3)	Structural Organic Chemistry
MATH 317	(3)	Numerical Analysis

3 credits, one of:

ATOC 315	(3)	Thermodynamics and Convection
ATOC 412	(3)	Atmospheric Dynamics
CHEM 567	(3)	Chemometrics: Data Analysis
CHEM 575	(3)	Chemical Kinetics
CHEM 597	(3)	Analytical Spectroscopy
EPSC 542	(3)	Chemical Oceanography

13.13.7.12 Bachelor of Science (B.Sc.) - Major Chemistry - Bio-organic (63 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (60 credits)

The required courses in this program consist of 60 credits in chemistry, biology and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
CHEM 502	(3)	Advanced Bio-Organic Chemistry
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Course (3 credits)

One of:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

13.13.7.13 Bachelor of Science (B.Sc.) - Major Chemistry - Materials (62 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (59 credits)

The required courses in this program consist of 59 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
CHEM 574	(3)	Introductory Polymer Chemistry
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

Complementary Course (3 credits)

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 534	(3)	Nanoscience and Nanotechnology
CHEM 571	(3)	Polymer Synthesis
CHEM 585	(3)	Colloid Chemistry

13.13.7.14 Bachelor of Science (B.Sc.) - Honours Chemistry (71 credits)

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (53 credits)

The required courses in this program consist of 53 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (18 credits)

6 credits of research*:

* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Research Project 2

12 credits of additional Chemistry courses as follows:

6 credits of which must be at the 300 level or higher, and

6 credits of which must be at the 400 level or higher.

13.13.7.15 Bachelor of Science (B.Sc.) - Honours Chemistry - Atmosphere and Environment (75 credits)

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (60 credits)

The required courses in this program consist of 60 credits in chemistry and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their Adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
CHEM 419	(3)	Advances in Chemistry of Atmosphere
CHEM 462	(3)	Green Chemistry
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (15 credits)

6 credits of research*:

* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Research Project 2

3 credits, one of:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
CHEM 532	(3)	Structural Organic Chemistry
MATH 317	(3)	Numerical Analysis

6 credits, two of:

ATOC 315	(3)	Thermodynamics and Convection
ATOC 412	(3)	Atmospheric Dynamics
CHEM 567	(3)	Chemometrics: Data Analysis
CHEM 575	(3)	Chemical Kinetics
CHEM 597	(3)	Analytical Spectroscopy
EPSC 542	(3)	Chemical Oceanography

13.13.7.16 Bachelor of Science (B.Sc.) - Honours Chemistry - Bio-organic (75 credits)

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (57 credits)

The required courses in this program consist of 57 credits in chemistry, biology and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1

CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (18 credits)

18 credits selected as follows:

6 credits of research*:

* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Research Project 2

6 credits, two of the following courses:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 502	(3)	Advanced Bio-Organic Chemistry
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

and 6 credits of additional Chemistry courses at the 400 level or higher.

13.13.7.17 Bachelor of Science (B.Sc.) - Honours Chemistry - Materials (74 credits)

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (65 credits)

The required courses in this program consist of 65 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

*** Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
CHEM 470***	(6)	Research Project 1
CHEM 574	(3)	Introductory Polymer Chemistry
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (9 credits)

9 credits, three of:

* Students take either ANAT 542 or MIME 542.

ANAT 542*	(3)	Transmission Electron Microscopy
CHEM 462	(3)	Green Chemistry

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 533	(3)	Small Molecule Crystallography
CHEM 534	(3)	Nanoscience and Nanotechnology
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 585	(3)	Colloid Chemistry
MIME 260	(3)	Materials Science and Engineering
MIME 542*	(3)	Transmission Electron Microscopy

13.13.7.18 Chemistry (CHEM) Related Programs

13.13.7.18.1 Joint Honours in Physics and Chemistry

For more information, see [section 13.13.29: Physics \(PHYS\)](#).

13.13.8 Cognitive Science

13.13.8.1 About Cognitive Science

Cognitive Science is the multidisciplinary study of cognition in humans and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices that constructively extend human abilities.

Students wishing to enrol in the Minor in Cognitive Science must meet with the Interdisciplinary Programs Adviser in the Faculty of Science.

13.13.8.2 Bachelor of Science (B.Sc.) - Minor Cognitive Science (24 credits)

The Minor Cognitive Science is intended to allow students in the Faculty of Arts or the Faculty of Science to explore the interdisciplinary study of cognition. The goal is to understand the principles of intelligence with the hope that this will lead to a better understanding of the mind and learning.

Students wishing to complete this Minor must meet with the Interdisciplinary Programs Adviser in the Science Office for Undergraduate Student Advising (SOUSA).

Required Course (3 credits)

PSYC 532	(3)	Cognitive Science

Complementary Courses (21 credits)

Note:

Students must take a minimum of 6 credits at the 400 to 500 level.

Students may not take any courses from their home department(s).

Students complete a minimum of 9 credits each in two areas.

Computer Science and Mathematics

COMP 206	(3)	Introduction to Software Systems
COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424	(3)	Artificial Intelligence
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation

MATH 318 (3) Mathematical Logic

Linguistics

LING 201 (3) Introduction to Linguistics
 LING 330 (3) Phonetics
 LING 331 (3) Phonology 1
 LING 355 (3) Language Acquisition 1
 LING 360 (3) Introduction to Semantics
 LING 371 (3) Syntax 1
 LING 419 (3) Linguistic Theory and its Foundations
 LING 440 (3) Morphology
 LING 455 (3) Second Language Syntax
 LING 571 (3) Syntax 2
 LING 590 (3) Language Acquisition and Breakdown

Philosophy

PHIL 210 (3) Introduction to Deductive Logic 1
 PHIL 304 (3) Chomsky
 PHIL 306 (3) Philosophy of Mind
 PHIL 310 (3) Intermediate Logic
 PHIL 415 (3) Philosophy of Language
 PHIL 474 (3) Phenomenology
 PHIL 506 (3) Seminar: Philosophy of Mind
 PHIL 511 (3) Seminar: Philosophy of Logic and Mathematics

Psychology

PSYC 213 (3) Cognition
 PSYC 301 (3) Animal Learning & Theory
 PSYC 304 (3) Child Development
 PSYC 310 (3) Intelligence
 PSYC 311 (3) Human Cognition and the Brain
 PSYC 315 (3) Computational Psychology
 PSYC 340 (3) Psychology of Language
 PSYC 410 (3) Special Topics in Neuropsychology
 PSYC 413 (3) Cognitive Development

13.13.9 Computer Science (COMP)

13.13.9.1 Location

McConnell Engineering Building, Room 318
 3480 University Street
 Montreal, Quebec H3A 0E9

Telephone: 514-398-7071

Fax: 514-398-3883

Undergraduate Student Affairs Office

Lorne Trottier Building, Room 2060

3630 University Street

Montreal, Quebec H3A 0C6

Telephone: 514-398-7071 ext. 00739

Fax: 514-398-4653

Email: ugrad-sec@cs.mcgill.ca

Website: www.cs.mcgill.ca

13.13.9.2 About Computer Science

Computer Science covers the theory and practice behind the design and implementation of computer and information systems. Fundamental to computer science are questions about how to describe, process, manage, and analyze information and computation. A fundamental building block is the study of algorithms. An algorithm presents a detailed sequence of actions solving a particular task. A computer program is the implementation of an algorithm in a specific programming language, which enables a computer to execute the algorithm. Software generally refers to a computer program or a set of related computer programs.

Based on the building blocks of computational thinking and programming, computer science is split into many different areas such as the study of algorithms and data structures, programming languages and methodology, theory of computation, software engineering (the design of large software systems), computer architecture (the structure of the hardware), communication between computers, operating systems (the software that shields users from the underlying hardware), database systems (software that handles large amounts of data efficiently), artificial intelligence (algorithms inspired by human information processing), computer vision (algorithms that let computers see and recognize their environment), computer graphics, robotics (algorithms that control robots), and computational biology (algorithms and methods that address problems inspired by biology). Computer science also plays an important role in many other fields, including Biology, Physics, Engineering, Business, Music, and Neuroscience, where it is necessary to process and reason about large amounts of data. Computer Science is strongly related to mathematics, linguistics, and engineering.

A degree in Computer Science offers excellent job prospects. As the use of computers and specialized software plays a crucial role in business, science, and our personal life, computer science graduates are in high demand. Computer scientists find jobs in software development, in consulting, in research, and in project management. As computer scientists often develop the software for a specific application domain (e.g., business, engineering, medicine), they must be prepared and willing to get to know their application area.

The School of Computer Science offers a wide range of programs. Most programs start with the same set of basic courses allowing students to decide on their exact program once they get a basic understanding of the discipline. Within the Faculty of Science, there are a major, an honours, a liberal, and a minor program in Computer Science, a major and a liberal program in Software Engineering, a major in Computer Science: Computer Games Option, a joint major and a joint honours program in Mathematics and Computer Science (see [section 13.13.21: Mathematics and Statistics \(MATH\)](#)), a joint major and a joint honours program in Statistics and Computer Science (see [section 13.13.21: Mathematics and Statistics \(MATH\)](#)), a joint major in Physics and Computer Science (see [section 13.13.29: Physics \(PHYS\)](#)), and a joint major in Computer Science and Biology (see [section 13.13.5: Biology \(BIOL\)](#)). The School also offers a major concentration and minor concentrations in Computer Science, and a major concentration in Software Engineering through the Faculty of Arts (see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.12: Computer Science (COMP)*) or as part of a Bachelor of Arts and Science (see *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > Academic Programs > section 4.10.14: Computer Science (COMP)*).

The School's courses are available as electives to Engineering students. Engineering students interested in a minor in Computer Science should consult *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Engineering > Undergraduate > Academic Programs > Minor Programs > section 6.12.10.5: Computer Science Courses and Minor Program*.

Most course instructors are Faculty members of the School that do research in the areas they teach. Students will learn in a small classroom environment, get to know their professors and have opportunity to do cutting-edge research. Some graduate courses in Computer Science are available to suitably qualified senior undergraduates. The School offers large computing labs in the Lorne Trottier Building, which is dedicated to undergraduate students.

All students planning to enter Computer Science programs are encouraged to make an appointment with an academic adviser through the School's Undergraduate Student Affairs Office.

13.13.9.3 Internship Opportunities

Students who want to get practical experience in industry before graduation are encouraged to participate in one of the following internship programs:

The Internship Year in Science (IYS) is an academic program offered for a duration of 8, 12, or 16 months. It will be reflected on your transcript and is included in your program name (Bachelor of Science – Internship Program).

The Industrial Practicum (IP) has a duration of four months and is usually carried out starting in May. It will appear as a 0-credit, Pass/Fail course on your transcript. If you complete two IPs, the name of your program will change to include the word "internship."

For more information on these programs, consult [section 13.12.1: Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#) or www.mcgill.ca/science/internships-field/internships.

13.13.9.4 Research Opportunities

Computer science undergraduates have excellent opportunities to participate in research. Each summer, several awards are available, such as the NSERC Undergraduate Student Research Awards; these offer financial support for a research experience in an academic setting. Other research assistantship and volunteering opportunities in research labs are also available. Students may also take undergraduate research project courses such as COMP 396 *Undergraduate Research Project*, COMP 400 *Honours Project in Computer Science*, and COMP 401 *Project in Biology and Computer Science*. Students who have participated in substantial and broad undergraduate research may qualify for the Dean's Multidisciplinary Undergraduate Research List at graduation time. For more information, consult *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Graduation > section 1.9.3: Graduation Honours: Faculty of Science Dean's Multidisciplinary Undergraduate Research List*.

13.13.9.5 Admissions

Students intending to pursue a major in Computer Science or Software Engineering should have a reasonable mathematical background and should have completed MATH 140 (or MATH 150), MATH 141 (or MATH 151), and MATH 133, or their CEGEP equivalents. These three Mathematics courses should have been completed with at least an average of B-. A background in computer science is not necessary as students may start their studies with the introductory course COMP 202. However, taking COMP 202 in the Freshman year, or completing an equivalent course in CEGEP, would be an asset and allows students to take more advanced courses earlier in their program.

More information about the admission process and the programs is available at www.cs.mcgill.ca.

13.13.9.6 Computer Science (COMP) Faculty

Director

Gregory Dudek

Emeritus Professors

Renato De Mori-Bajolin; D.Eng.(Politecnico di Torino, Italy)

Timothy Merrett; B.Sc.(Qu.), D.Phil.(Oxf.)

Monroe Newborn; B.E.E.(R.P.I.), Ph.D.(Ohio St.), F.A.C.M.

Christopher C. Paige; B.Sc.(Syd.), B.Eng.(Syd.), Ph.D.(Lond.), D.Phil.(Lond.)

Gerald Ratzer; B.Sc.(Glas.), M.Sc.(McG.)

Godfried T. Toussaint ; B.Sc.(Tulsa), Ph.D.(Br. Col.)

Sue Whitesides; M.S.E.E.(Stan.), Ph.D.(Wisc.)

Professors

David M. Avis; B.Sc.(Wat.), Ph.D.(Stan.)

Luc P. Devroye; M.S.(Louvain), Ph.D.(Texas) (*James McGill Professor*)

Gregory Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.) (*James McGill Professor*)

Laurie Hendren; B.Sc., M.Sc.(Qu.), Ph.D.(C'nell) (*Canada Research Chair*) (*Royal Society of Canada Fellow*)

Prakash Panangaden; M.Sc.(IIT, Kanpur), M.S.(Chic.), Ph.D.(Wisc.)

Bruce Reed; B.Sc., Ph.D.(McG.) (*Canada Research Chair*) (*Royal Society of Canada Fellow*)

Kaleem Siddiqi; B.Sc.(Lafayette), M.Sc., Ph.D.(Brown) (*William Dawson Scholar*)

Denis Thérien; B.Sc.(Montr.), M.Sc., Ph.D.(Wat.) (*James McGill Professor*)

Associate Professors

Mathieu Blanchette; B.Sc., M.Sc.(Montr.), Ph.D.(Wash.)

Xiao-Wen Chang; B.Sc., M.Sc.(Nanjing), Ph.D.(McG.)

Claude Crépeau; B.Sc., M.Sc.(Montr.), Ph.D.(MIT)

Nathan Friedman; B.A.(W. Ont.), Ph.D.(Tor.)

Michael Trevor Hallett; B.Sc.(Qu.), Ph.D.(Vic., BC)

Patrick Hayden; B.Sc.(McG.), Ph.D.(Oxf.) (*Canada Research Chair*)

Bettina Kemme; B.Sc., M.Sc.(Erlangen-Nuremberg, Germany), Ph.D.(ETH, Zurich)

Jörg Kienzle; Eng.Dip., Ph.D.(Swiss Fed. IT)

Associate Professors

Michael Langer; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(McG.) (*on leave 2013–2014*)

Xue Liu; B.Sc., M.Sc.(Tsinghua), Ph.D.(Ill.)

Muthucumaru Maheswaran; B.Sc.(Peradeniya), M.Sc., Ph.D.(Purd.)

Brigitte Pientka; B.Sc., M.Sc.(Darmstadt), Ph.D.(Carn. Mell)

Joëlle Pineau; B.Sc.(Wat.), M.Sc., Ph.D.(Carn. Mell)

Doina Precup; B.Sc.(Cluj-Napoca), M.Sc., Ph.D.(Mass.)

Martin Robillard; B.Eng.(École Poly., Montr.), M.Sc., Ph.D.(Br. Col.)

Carl Tropper; B.Sc.(McG.), Ph.D.(Brooklyn Poly.)

Clark Verbrugge; B.A.(Qu.), Ph.D.(McG.)

Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT)

Assistant Professors

Hamed Hatami; B.Sc.(Sharif Univ. of Technology), M.Sc., Ph.D.(Tor.)

Wenbo He; B.Eng.(Harbin), M.Eng., Ph.D.(Ill.)

Paul Kry; B.Sc.(Wat.), M.Sc., Ph.D.(Br. Col.)

Derek Ruths; B.Sc., M.Sc., Ph.D.(Rice)

Jérôme Waldispühl; B.Sc.(Nice and Sophia-Antipolis, France), M.Sc.(Paris VII), Ph.D.(École Poly., France)

Faculty Lecturer

Joseph Vybihal; B.Sc., M.Sc.(McG.)

Associate Members

Daniel J. Levitin (*Psychology*)

Dirk Schlimm (*Philosophy*)

Raja Sengupta (*Geography*)

F. Bruce Shepherd (*Mathematics*)

Thomas Richard Shultz (*Psychology*)

Renée Sieber (*Geography*)

Adjunct Professors

Masoumeh Tabaeh Izadi; B.Sc.(Tehran), M.Sc.(King's Coll., Lond.), Ph.D.(McG.)

Theodore Perkins; B.A.(Car.), M.Sc.(Wisc.), Ph.D.(Mass.)

Ioannis Rekleitis; B.Sc.(Athens), M.Sc., Ph.D.(McG.)

Ger Otto Sabidussi

Hans Vangheluwe; B.Sc., M.Sc., D.Sc.(Ghent, Belgium)

13.13.9.7 Bachelor of Science (B.Sc.) - Minor Computer Science (24 credits)

This Minor is designed for students who want to gain a basic understanding of computer science principles and get an overview of some computer science areas. Basic computer science skills are important in many domains. Thus, the Minor is useful for students majoring in any discipline. It can be taken in conjunction with any program in the Faculties of Science and Engineering (with the exception of other programs in Computer Science).

Students must obtain approval from the adviser of their main program. Students are strongly encouraged to talk to an adviser of the School of Computer Science before choosing the complementary courses. Approval must be given by the School for the particular selection of courses to be credited toward the Minor. This should be done before registering for the final term of studies.

Students may receive credit toward their Computer Science Minor by taking certain approved courses outside the School of Computer Science. These courses must have a high computer science content. A student will not be permitted to receive more than 6 credits from such courses. These courses must be approved by the School of Computer Science in advance. If a student's Major program requires Computer Science courses, up to 6 credits of Computer Science courses may be used to fulfil both Major and Minor requirements.

Required Courses (9 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202, but it must be replaced with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (15 credits)

15 credits selected from the courses below and computer science courses at the 300 level or above (except COMP 364, COMP 396, COMP 400).

* Note: COMP 251 is a prerequisite for many of the other complementary courses.

COMP 251*	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

13.13.9.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Computer Science (45 credits)

This program provides an introduction to the principles of computer science and offers opportunity to get insight into some of its sub-areas. Having only 45 credits, it allows students to combine it with minor or major concentrations in other disciplines.

Required Courses (21 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202, but it must be replaced with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 222	(3)	Calculus 3
MATH 240	(3)	Discrete Structures 1

Complementary Courses (24 credits)

3-6 credits from:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2

At least 3 credits from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

At least 3 credits from:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development

The remaining complementary courses should be selected from any COMP courses at the 300 level or above except COMP 364, COMP 396, COMP 400 and COMP 431.

Note: Advanced COMP courses have more prerequisites than the required courses for this program. Students have to make sure that they have the appropriate prerequisites when choosing upper-level courses.

13.13.9.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Software Engineering (49 credits)

This program covers a core of programming and software engineering courses and allows students to select courses that aim at practical aspects of software development.

Students may complete this program with a minimum of 48 credits or a maximum of 49 credits depending on their choice of complementary courses.

Required Courses (36 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310	(3)	Operating Systems
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (13 credits)

3 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

9-10 credits selected from the courses below:

COMP 322	(1)	Introduction to C++
COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 520	(4)	Compiler Design
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development

COMP 535 (3) Computer Networks 1

Or any computer science course at the 300 level or above, excluding COMP 364, COMP 396, and COMP 400.

13.13.9.10 Bachelor of Science (B.Sc.) - Major Computer Science (63 credits)

This program is the standard Major program offered by the School of Computer Science. It provides a broad introduction to the principles of computer science and offers ample opportunity to acquire in-depth knowledge of several sub-disciplines. At the same time, its credit requirements allow students to take an additional minor.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from taking COMP 202.

Required Courses (33 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310	(3)	Operating Systems
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (30 credits)

Students should talk to an academic adviser before choosing their complementary courses.

At least 6 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

3-9 credits selected from:

* Must include at least one of MATH 323 and MATH 340.

MATH 318	(3)	Mathematical Logic
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 340*	(3)	Discrete Structures 2

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364, COMP 396, COMP 400).

Note: Students have to make sure that they have the appropriate prerequisites when choosing upper-level courses.

13.13.9.11 Bachelor of Science (B.Sc.) - Major Computer Science and Biology (73 credits)

This program will train students in the fundamentals of biology - with a focus on molecular biology - and will give them computational and mathematical skills needed to manage, analyze, and model large biological datasets. Two integrative features of the program are a three-credit joint independent studies course, and a one-credit seminar.

Students may complete this program with a maximum of 73 credits or a minimum of 69 credits. This depends upon the student's choice of required courses and whether or not the student is exempt from taking COMP 202.

Advising notes for UO students:

It is highly recommended that Freshman BIOL, CHEM, MATH, and PHYS courses be selected with an adviser to ensure they meet the core requirements of the COMP-BIO program.

Required Courses (49 credits)**Required Mathematics and Statistics Courses**

6 credits from the following:

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

Required Computer Science Courses

12-16 credits from:

* Students who have sufficient knowledge in a programming language are not required to take COMP 202.

** Students take either COMP 462 or COMP 561.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 462**	(3)	Computational Biology Methods
COMP 561**	(4)	Computational Biology Methods and Research

Required Biology Courses

20 credits from:

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 212	(4)	Introductory Organic Chemistry 1

Required Joint Courses

4 credits from:

COMP 401	(3)	Project in Biology and Computer Science
COMP 499	(1)	Undergraduate Bioinformatics Seminar

Complementary Courses (27 credits)

6 credits, ONE of the following pairs of courses as follows:

MATH 203 and MATH 204 or MATH 323 and MATH 324 or BIOL 309 and BIOL 373.

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

At least 21 credits selected from the following blocks, with the following requirements:

- at least 9 credits from each of the following two blocks
- at least 9 credits at the 400 level or above
- at least 3 credits at the 400 level or above from each block

Computer Science Block

Note: All COMP courses at the 400 level or above (except COMP 400).

COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design
COMP 361D1*	(3)	Software Engineering Project
COMP 361D2*	(3)	Software Engineering Project
MATH 240	(3)	Discrete Structures 1

* Students must take both COMP 361D1 and COMP 361D2.

Biology Block

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar 1
BIOL 435	(3)	Natural Selection
BIOL 495	(1)	Quantitative Biology Seminar 2
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 551	(3)	Principles of Cellular Control
BIOL 568	(3)	Topics on the Human Genome
BIOL 569	(3)	Developmental Evolution
BIOL 583	(3)	Advanced Biometry

13.13.9.12 Bachelor of Science (B.Sc.) - Major Computer Science - Computer Games (67 credits)

This program is a specialization within Computer Science. It fulfils all the basic requirements of the Major Computer Science. Complementary courses focus on topics that are important to understanding the technology behind computer games and to gaining experience in software development and design needed for computer game development.

Students may complete this program with a minimum of 62 credits or a maximum of 67 credits depending if they are exempt from taking COMP 202 and their choice of complementary courses.

Required Courses (50 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 308	(1)	Computer Systems Lab
COMP 310	(3)	Operating Systems
COMP 322	(1)	Introduction to C++
COMP 330	(3)	Theory of Computation
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 557	(3)	Fundamentals of Computer Graphics
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1
MATH 323	(3)	Probability

Complementary Courses (17 credits)

Students complete a minimum of 15 or a maximum of 17 complementary credits selected as follows:

3 credits selected from:

COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

6-8 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development
COMP 559	(4)	Fundamentals of Computer Animation

6 credits selected from:

COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 535	(3)	Computer Networks 1

13.13.9.13 Bachelor of Science (B.Sc.) - Major Software Engineering (63 credits)

This program provides a broad introduction to the principles of computer science and covers in depth the design and development of software systems. Students may complete this program with a maximum of 63 credits or a minimum of 60 credits if they are exempt from taking COMP 202.

Required Courses (39 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

** Students may select either COMP 310 or ECSE 427, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310**	(3)	Operating Systems
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
ECSE 427**	(3)	Operating Systems
ECSE 429	(3)	Software Validation
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (24 credits)

At least 9 credits selected from groups A and B, with at least 3 credits selected from each:

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

At least 15 credits selected from the following, with at least 6 credits selected from Software Engineering Specializations, and at least 6 credits selected from Applications Specialties.

Software Engineering Specializations

* Students may select either COMP 409 or ECSE 420, but not both.

COMP 409*	(3)	Concurrent Programming
COMP 523	(3)	Language-based Security
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development
ECSE 420*	(3)	Parallel Computing

Application Specialties

* Students may select either COMP 557 or ECSE 532, but not both.

COMP 350	(3)	Numerical Computing
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
COMP 535	(3)	Computer Networks 1
COMP 557*	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision
ECSE 424	(3)	Human-Computer Interaction
ECSE 532*	(3)	Computer Graphics

13.13.9.14 Bachelor of Science (B.Sc.) - Honours Computer Science (75 credits)

Students may complete this program with a minimum of 72 credits or a maximum of 75 credits depending if they are exempt from taking COMP 202.

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Required Courses (48 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

** Students take either MATH 340 or MATH 350.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 362	(3)	Honours Algorithm Design
COMP 400	(3)	Honours Project in Computer Science

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1
MATH 340**	(3)	Discrete Structures 2
MATH 350**	(3)	Graph Theory and Combinatorics

Complementary Courses (27 credits)

6 credits selected from:

MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364 and COMP 396). At least 12 credits must be at the 500 level.

13.13.9.15 Bachelor of Science (B.Sc.) - Honours Software Engineering (75 credits)

This program provides a more challenging and research-oriented version of the Major Software Engineering program.

Students may complete this program with a maximum of 75 credits or a minimum of 72 credits if they are exempt from taking COMP 202.

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Required Courses (42 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

** Students may select either COMP 310 or ECSE 427, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Development
COMP 310**	(3)	Operating Systems
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 400	(3)	Honours Project in Computer Science
ECSE 427**	(3)	Operating Systems
ECSE 429	(3)	Software Validation
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1

Complementary Courses (33 credits)

Of the 33 credits, at least 12 credits must be at the 500 level or above. Courses at the 600 level require special permission. Information on the policy and procedures for such permission may be found at: http://www.mcgill.ca/science/sousa/general/course/600-level_courses/.

At least 9 credits selected from groups A and B, with at least 3 credits selected from each:

Group A:

* Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

MATH 222*	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

At least 18 credits selected from the following, with at least 6 credits selected from Software Engineering Specializations, and at least 9 credits selected from Applications Specialties.

Software Engineering Specializations

* Students may select either COMP 409 or ECSE 420, but not both.

COMP 409*	(3)	Concurrent Programming
COMP 523	(3)	Language-based Security
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Object-Oriented Software Development
ECSE 420*	(3)	Parallel Computing

Application Specialties

COMP 350	(3)	Numerical Computing
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
COMP 535	(3)	Computer Networks 1
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision
ECSE 424	(3)	Human-Computer Interaction

At least 6 credits selected from any COMP courses at the 500 level or above. These may include courses on the Software Engineering Specializations and Application Specialties lists.

13.13.9.16 Computer Science (COMP) Related Programs**13.13.9.16.1 Joint Major in Mathematics and Computer Science**

For more information, see [section 13.13.21: Mathematics and Statistics \(MATH\)](#).

13139162 Joint Honours in Mathematics and Computer Science

For more information, see [section 13.13.21: Mathematics and Statistics \(MATH\)](#). Students must consult an Honours adviser in both departments.

13139163 Joint Major in Statistics and Computer Science

For more information, see [section 13.13.21: Mathematics and Statistics \(MATH\)](#).

13139164 Joint Honours in Statistics and Computer Science

For more information, see [section 13.13.21: Mathematics and Statistics \(MATH\)](#). Students must consult an Honours adviser in both departments.

13139165 Joint Major in Physics and Computer Science

For more information, see [section 13.13.29: Physics \(PHYS\)](#).

13139166 Minor in Cognitive Science

Students following Major or Honours programs in Computer Science may want to consider the Minor in Cognitive Science.

13.13.10 Earth and Planetary Sciences (EPSC)

13.13.10.1 Location

Frank Dawson Adams Building, Room 238
3450 University Street
Montreal, Quebec H3A 0E8

Telephone: 514-398-6767
Fax: 514-398-4680
Email: kristy.thornton@mcgill.ca
Website: www.eps.mcgill.ca

13.13.10.2 About Earth and Planetary Sciences

The domain of Earth and Planetary Sciences includes the solid Earth and its hydrosphere and extends to the neighbouring terrestrial planets. It is a multidisciplinary field in which the principles of chemistry, physics, and mathematics are applied to the rich problems of the real world in order to understand how planets like the Earth work; in the past, the present, and the future.

Career opportunities are many and varied for graduates in the Earth and Planetary Sciences. There is presently a demand for graduates with expertise in many disciplines of the Earth Sciences. Our students are recruited for employment in the petroleum and mining industries, and in the environmental sector.

During the summer months, undergraduate students are generally able to obtain employment from industry or government agencies, providing them with both financial benefits and first-hand geoscientific experience. Career opportunities in planetary science are present in universities and research organizations.

The Department has a full-time staff of 17 professors and one faculty lecturer. There are approximately 55 graduate and 50 undergraduate students. Classes are therefore small at all levels, resulting in an informal and friendly atmosphere throughout the Department in which most of the faculty and students interact on a first-name basis. Emphasis is placed equally on quality teaching and research providing undergraduate students with a rich and exciting environment in which to explore and learn.

The undergraduate curriculum is designed to provide both a rigorous foundation in the physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, or research. In addition to the Major and Honours undergraduate programs, the Department is part of the Earth System Science Interdepartmental program, and also offers a Joint Major in Physics and Geophysics which provides a rigorous mathematics and physics preparation and a geological background in the geosciences.

The Minor in Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences, while the Minor in Geochemistry is oriented towards Chemistry Major students who want to see the application of chemistry to problems in Earth and Planetary Sciences.

A Science Major concentration in Earth, Atmosphere and Ocean Sciences is available to students pursuing the B.A. & Sc. degree. This Major concentration is described in *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > [section 4.10.16: Earth, Atmosphere and Ocean Sciences](#)*.

Students interested in any of the programs should inquire at Room 238, Frank Dawson Adams Building, 514-398-6767, or should consult the Undergraduate Director:

Professor Jeanne Paquette
Frank Dawson Adams Building, Room 214
Email: jeanne.paquette@mcgill.ca
Telephone: 514-398-4402

13.13.10.3 Earth and Planetary Sciences (EPSC) Faculty**Chair**

TBA

Emeritus Professors

Jafar Arkani-Hamed; B.Eng.(Tehran), Ph.D.(MIT)

Wallace H. MacLean; B.Geol.Eng.(Colorado Sch. of Mines), M.Sc.(A.), Ph.D.(McG.)

Robert F. Martin; B.Sc.(Ott.), M.S.(Penn. St.), Ph.D.(Stan.)

Colin W. Stearn; B.Sc.(McM.), M.S., Ph.D.(Yale), F.R.S.C.

Professors

Don R. Baker; A.B.(Chic.), Ph.D.(Penn. St.)

Don M. Francis; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(MIT) (*Dawson Professor of Geology*)Andrew J. Hynes; B.Sc.(Tor.), Ph.D.(Cant.) (*William E. Logan Professor of Geology*)

Olivia G. Jensen; B.Sc., M.Sc., Ph.D.(Br. Col.)

Alfonso Mucci; B.Sc., M.Sc.(Montr.), Ph.D.(Miami)

John Stix; A.B.(Dart.), M.Sc., Ph.D.(Tor.)

A.E. (Willy) Williams-Jones; B.Sc., M.Sc.(Natal), Ph.D.(Qu.)

Associate ProfessorsGalen Halverson; B.A.(Mont.), M.A., Ph.D.(Harv.) (*T.H. Clark Chair in Sedimentary and Petroleum Geology*)

Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)

Jeanne Paquette; B.Sc., M.Sc.(McG.), Ph.D.(Stony Brook) (*Undergraduate Director*)Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich) (*Director, Electron Microscopy Centre*)

Boswell Wing; A.B.(Harv.), M.A., Ph.D.(Johns Hop.)

Assistant Professors

Eric Galbraith; B.Sc.(McG.), Ph.D.(Br. Col.)

Rebecca Harrington; B.Sc., M.S., Ph.D.(Calif.-LA)

Yajing Liu; B.Sc.(Peking), Ph.D.(Harv.)

Christie Rowe; A.B.(Smith), Ph.D.(Calif.-Santa Cruz) (*Robert Wares Faculty Scholar*)Vincent van Hinsberg; Propadeuse(Utrecht), Doctorandus(Utrecht), Ph.D.(Brist.) (*Osisko Faculty Scholar*)**Faculty Lecturer**

W. Minarik; B.A.(St. Olaf), M.Sc.(Wash.), Ph.D.(Rensselaer Poly.)

Adjunct Professors

M. Riedel

H. Short

B. Sundby

W. Trzcienski

Retired Professor

R. Hesse

13.13.10.4 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 203	(3)	Structural Geology
EPSC 231	(3)	Field School 1
EPSC 334	(3)	Invertebrate Paleontology
EPSC 350	(3)	Tectonics
EPSC 452	(3)	Mineral Deposits
EPSC 542	(3)	Chemical Oceanography
EPSC 561	(3)	Ore-forming Processes 1

13.13.10.5 Bachelor of Science (B.Sc.) - Minor Geochemistry (18 credits)

Required Courses (9 credits)

EPSC 201	(3)	Understanding Planet Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (9 credits)

9 credits selected from:

EPSC 220	(3)	Principles of Geochemistry
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotope Geology
EPSC 542	(3)	Chemical Oceanography
EPSC 561	(3)	Ore-forming Processes 1
EPSC 570	(3)	Cosmochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

13.13.10.6 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Earth and Planetary Sciences (45 credits)

The B.Sc. (Liberal) program in Earth and Planetary Sciences provides the graduate with a solid core of knowledge of Geology, Geophysics, Earth Systems Science, and Planetary Science while allowing for a broadening of the student's educational experience with courses from the other sciences or the arts. The program is flexible, allowing students to assemble a truly interdisciplinary degree.

Required Courses (21 credits)

EPSC 203	(3)	Structural Geology

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
EPSC 320	(3)	Elementary Earth Physics

Complementary Courses (24 credits)

3 credits, one of:

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

plus 21 credits chosen from the following:

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

EPSC 312	(3)	Spectroscopy of Minerals
EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes 1
EPSC 562	(3)	Ore-forming Processes 2
EPSC 567	(3)	Advanced Volcanology
EPSC 570	(3)	Cosmochemistry
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications

13.13.10.7 Bachelor of Science (B.Sc.) - Major Earth and Planetary Sciences (66 credits)

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. The program is accepted for professional qualification in most Canadian provinces.

U1 Required Courses (21 credits)

EPSC 203	(3)	Structural Geology
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 312	(3)	Spectroscopy of Minerals
MATH 222	(3)	Calculus 3

U1 Complementary Course (3 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

U2 and/or U3 Required Courses (24 credits)

EPSC 320	(3)	Elementary Earth Physics
EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits

Complementary Courses (18 credits)

3 credits, one of:

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

plus 15 credits (five courses) chosen from the following:

Note: Other courses at the 300 level or higher in Earth and Planetary Sciences and in other departments in the Faculties of Science and Engineering may also be used as complementary credits with the permission of the Director of undergraduate studies.

EPSC 330	(3)	Earthquakes and Earth Structure

EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 470D1	(3)	Undergraduate Thesis Research
EPSC 470D2	(3)	Undergraduate Thesis Research
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes 1
EPSC 562	(3)	Ore-forming Processes 2
EPSC 567	(3)	Advanced Volcanology
EPSC 570	(3)	Cosmochemistry
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

13.13.10.8 Bachelor of Science (B.Sc.) - Honours Earth Sciences (75 credits)

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is intended to provide an excellent preparation for graduate work in the earth sciences. The program is accepted for professional qualification in most Canadian provinces.

Note: Honours students must maintain a CGPA equal to or greater than 3.20.

U1 Required Courses (24 credits)

EPSC 203	(3)	Structural Geology
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
EPSC 312	(3)	Spectroscopy of Minerals
MATH 222	(3)	Calculus 3

U2 and/or U3 Required Courses (33 credits)

EPSC 320	(3)	Elementary Earth Physics
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 445	(3)	Metamorphic Petrology

EPSC 452	(3)	Mineral Deposits
EPSC 480D1	(3)	Honours Research Project
EPSC 480D2	(3)	Honours Research Project
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (18 credits)

3 credits, one of:

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

plus 15 credits (five courses) chosen from the following:

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 334	(3)	Invertebrate Paleontology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 501	(3)	Crystal Chemistry
EPSC 510	(3)	Geodynamics and Geomagnetism
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes 1
EPSC 562	(3)	Ore-forming Processes 2
EPSC 567	(3)	Advanced Volcanology
EPSC 570	(3)	Cosmochemistry
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

13.13.10.9 Bachelor of Science (B.Sc.) - Honours Planetary Sciences (81 credits)

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is intended to provide an excellent preparation for graduate work in the earth and planetary sciences.

Note: Honours students must maintain a CGPA equal to or greater than 3.20.

U1 Required Courses (27 credits)

EPSC 203	(3)	Structural Geology

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
EPSC 312	(3)	Spectroscopy of Minerals
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

U2 and/or U3 Required Courses (42 credits)

EPSC 320	(3)	Elementary Earth Physics
EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 423	(3)	Igneous Petrology
EPSC 480D1	(3)	Honours Research Project
EPSC 480D2	(3)	Honours Research Project
EPSC 510	(3)	Geodynamics and Geomagnetism
EPSC 570	(3)	Cosmochemistry
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
PHYS 340	(3)	Majors Electricity and Magnetism

Complementary Courses (12 credits)

3 credits, one of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

plus 9 credits (three courses) chosen from the following:

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

EPSC 334	(3)	Invertebrate Paleontology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology

EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes 1
EPSC 562	(3)	Ore-forming Processes 2
EPSC 567	(3)	Advanced Volcanology
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

13.13.10.10 Earth and Planetary Sciences (EPSC) Related Programs

13.13.10.10.1 Joint Major in Physics and Geophysics

For more information, see [section 13.13.29: Physics \(PHYS\)](#).

13.13.10.10.2 Earth System Science Interdepartmental Major

This program is offered by the Department of Atmospheric & Oceanic Sciences, Earth & Planetary Sciences, and Geography. Students in the Department of Earth & Planetary Sciences who are interested in this program should contact: Professor Jeffrey McKenzie (jeffrey.mckenzie@mcgill.ca).

For more information, see [section 13.13.11: Earth System Science \(ESYS\)](#).

13.13.11 Earth System Science (ESYS)

13.13.11.1 Location

Program Adviser
Dr. William Minarik
Frank Dawson Adams, Room 215
Email: william.minarik@mcgill.ca
Telephone: 514-398-2596

13.13.11.2 About Earth System Science

The McGill interdepartmental major program in Earth System Science (ESYS) is designed to equip students with the skills and knowledge to address six “Grand Challenges” that are fundamental to our understanding of the way in which the Earth operates. These are:

- Global biogeochemical cycles
- Climate variability and change
- Land use and land cover change
- Energy and resources
- Earth hazards: volcanoes, earthquakes, and hurricanes
- Earth-atmosphere observation, analysis, and prediction

The ESS programs are offered jointly by the Department of Atmospheric and Oceanic Sciences (ATOC), the Department of Earth and Planetary Sciences (EPSC), and the Department of Geography (GEOG).

The individual departments, their disciplines, and specific courses offered by them are described in their respective entries in this publication.

13.13.11.3 Bachelor of Science - Minor Earth System Science (18 credits)

Required Courses (12 credits)

ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications

Complementary Courses (6 credits)

Two courses from 2 of 3 ESYS Departments (EPSC, ATOC, or GEOG), 300 level or higher, in consultation with the ESS student adviser.

13.13.11.4 Bachelor of Science (B.Sc.) - Major Earth System Science (57 credits)

The Major in Earth System Science (ESYS) is offered jointly by the following departments:

Atmospheric and Oceanic Sciences (ATOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG)

Earth System Science (ESYS) views Earth as a single integrated system that provides a unifying context to examine the interrelationships between all components of the Earth system. The approach concentrates on the nature of linkages among the biological, chemical, human, and physical subsystems of the Earth. Earth System Science primarily involves studying the cycling of matter and energy through the atmosphere, biosphere, cryosphere, exosphere, and hydrosphere. It examines the dynamics and interrelationships among these processes at time scales that range from billions of years to days, and seeks to understand how these interrelationships have changed over time.

Required Courses (24 credits)

COMP 202	(3)	Foundations of Programming
ENVR 201	(3)	Society, Environment and Sustainability
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Complementary Courses (33 credits)

One of the following two courses:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 219	(3)	Introduction to Atmospheric Chemistry

One of the following two courses:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

One of the following two courses:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

One of the following two courses:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

One of the following two courses:

BIOL 215	(3)	Introduction to Ecology and Evolution
ENVR 202	(3)	The Evolving Earth

One of the following courses:

ANTH 339	(3)	Ecological Anthropology
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 382	(3)	Principles Earth Citizenship
GEOG 406	(3)	Human Dimensions of Climate Change

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser. Please see the list posted on the Departmental web page.

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 412	(3)	Atmospheric Dynamics
ATOC 419	(3)	Advances in Chemistry of Atmosphere
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
BIOL 308	(3)	Ecological Dynamics
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540	(3)	Ecology of Species Invasions
BIOL 573	(3)	Vertebrate Palaeontology Field Course
BREE 217	(3)	Hydrology and Water Resources
BREE 319	(3)	Engineering Mathematics
BREE 509	(3)	Hydrologic Systems and Modelling

BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
BREE 533	(3)	Water Quality Management
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
EPSC 212	(3)	Introductory Petrology
EPSC 312	(3)	Spectroscopy of Minerals
EPSC 320	(3)	Elementary Earth Physics
EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 331	(3)	Field School 2
EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 341	(3)	Field School 3
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes 1
EPSC 567	(3)	Advanced Volcanology
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources

GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
MATH 314	(3)	Advanced Calculus
MATH 315*	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Regression and Analysis of Variance
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
NRSC 540	(3)	Socio-Cultural Issues in Water
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids

* MATH 315 is a required course for the B.Sc. Honours Earth System Science.

13.13.11.5 Bachelor of Science (B.Sc.) - Honours Earth System Science (66 credits)

A rigorous foundation in earth system science and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is also intended to provide an excellent preparation for graduate work in earth system science. A CGPA of 3.20 or higher is required for registration in and graduation from this program.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.20, and a minimum grade of B+ in ESYS 300, ESYS 301, and ESYS 500.

Required Courses (33 credits)

COMP 202	(3)	Foundations of Programming
ENVR 201	(3)	Society, Environment and Sustainability
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 480D1	(3)	Honours Research Project
ESYS 480D2	(3)	Honours Research Project
ESYS 500	(3)	Earth System Applications
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (33 credits)

One of the following two courses:

ATOC 214	(3)	Introduction: Physics of the Atmosphere

ATOC 219	(3)	Introduction to Atmospheric Chemistry

One of the following two courses:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

One of the following two courses:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

One of the following two courses:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

One of the following two courses:

BIOL 215	(3)	Introduction to Ecology and Evolution
ENVR 202	(3)	The Evolving Earth

One of the following courses:

ANTH 339	(3)	Ecological Anthropology
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 382	(3)	Principles Earth Citizenship
GEOG 406	(3)	Human Dimensions of Climate Change

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser. Please see the list posted on the Departmental web page.

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 412	(3)	Atmospheric Dynamics
ATOC 419	(3)	Advances in Chemistry of Atmosphere
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics

ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
BIOL 308	(3)	Ecological Dynamics
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540	(3)	Ecology of Species Invasions
BIOL 573	(3)	Vertebrate Palaeontology Field Course
BREE 217	(3)	Hydrology and Water Resources
BREE 319	(3)	Engineering Mathematics
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
BREE 533	(3)	Water Quality Management
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
EPSC 212	(3)	Introductory Petrology
EPSC 312	(3)	Spectroscopy of Minerals
EPSC 320	(3)	Elementary Earth Physics
EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 331	(3)	Field School 2
EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 341	(3)	Field School 3
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotope Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes 1
EPSC 567	(3)	Advanced Volcanology
EPSC 580	(3)	Aqueous Geochemistry

EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
MATH 314	(3)	Advanced Calculus
MATH 315*	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Regression and Analysis of Variance
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
NRSC 540	(3)	Socio-Cultural Issues in Water
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids

* MATH 315 is a required course for the B.Sc. Honours Earth System Science.

13.13.12 Environment

13.13.12.1 Location

Downtown Campus
3534 University Street

Montreal, Quebec H3A 2A7
 Telephone: 514-398-2827
 Fax: 514-398-1643

Macdonald Campus

Rowles House
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Telephone: 514-398-7559
 Fax: 514-398-7846

13.13.12.2 About Environment

All courses given by the McGill School of Environment (Subject Code ENVR) are considered as courses taught by the Faculty of Science.

Science students who are interested in studying the environment should refer to *Programs, Courses and University Regulations > Faculties & Schools > McGill School of Environment*.

13.13.12.3 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Minor Environment (18 credits)

This 18-credit Minor is intended for Faculty of Agricultural and Environmental Science students and Faculty of Science students, but is open to students from other faculties as well, except Arts and Law.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. Only courses at the 200 level and above will be approved.

For information about the Minor in Environment, contact:

Ms. Kathy Roulet, MSE Program Adviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses are selected as follows:

12 credits of MSE core courses:

Location Note: MSE core courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course list may be included in the Minor with the permission of the MSE Program Adviser.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health

NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

* Note: You may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take BREE 217 or GEOG 322, but not both; you may take ENVB 430 or GEOG 201, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology

BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305*	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology

MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

13.13.12.4 Bachelor of Science (B.Sc.) - Major Environment - Atmospheric Environment and Air Quality (60 credits)

The rapid expansion of industrialization has been accompanied by a host of environmental problems, many, if not most, involving the atmosphere. Some problems are of a local nature, such as air pollution in large urban centres, while others are global, or at least reach areas far removed from industrial activities.

The emphasis in this domain is on the mechanisms of atmospheric flow and on atmospheric chemistry. Courses examine how the atmosphere transports pollution, lifting it to great heights into the stratosphere or keeping it trapped near the ground, moving it around the globe or imprisoning it locally, or how it simply cleanses itself of pollution through rainfall. The domain also gives students the training required to understand the important chemical reactions taking place within the atmosphere, as well as the know-how necessary to measure and analyze atmospheric constituents.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2013-2014" available on the MSE website (<http://www.mcgill.ca/mse>).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (18 credits)

18 credits are selected from:

* Note: You may take ATOC 219 or CHEM 219, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 315	(3)	Thermodynamics and Convection
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
GEOG 308	(3)	Principles of Remote Sensing

Domain: Complementary Courses (21 credits)

21 credits of complementary courses are selected as follows:

6 credits - Analytical Chemistry/Calculus courses

3 credits - Statistics

9 credits - Math or Physical Science

3 credits - Social Science

Analytical Chemistry/Calculus:

One of:

AEMA 202	(3)	Intermediate Calculus
MATH 222	(3)	Calculus 3

and 3 credits from:

Note: CHEM 287 and CHEM 297 must be taken together.

CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
FDSC 213	(3)	Analytical Chemistry 1

Statistics:

3 credits of Statistics courses or equivalent from:

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Math or Physical Science:

9 credits of Math or Physical Science (at least 6 credits of which are at the 300 level or above):

* Note: You may take ATOC 419 or CHEM 419, but not both; you may take AEMA 305 or MATH 315, but not both.

AEMA 305*	(3)	Differential Equations
ATOC 309	(3)	Weather Radars and Satellites
ATOC 412	(3)	Atmospheric Dynamics

ATOC 419*	(3)	Advances in Chemistry of Atmosphere
ATOC 540	(3)	Synoptic Meteorology 1
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 377	(3)	Instrumental Analysis 2
CHEM 419*	(3)	Advances in Chemistry of Atmosphere
CIVE 225	(4)	Environmental Engineering
COMP 208	(3)	Computers in Engineering
GEOG 505	(3)	Global Biogeochemistry
MATH 223	(3)	Linear Algebra
MATH 315*	(3)	Ordinary Differential Equations
NRSC 333	(3)	Pollution and Bioremediation
NRSC 510	(3)	Agricultural Micrometeorology

Social Science:

One of:

ANTH 206	(3)	Environment and Culture
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment

13.13.12.5 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Biodiversity and Conservation (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

This domain links the academic study of biological diversity with the applied field of conservation biology. The study of biological diversity, or "biodiversity," lies at the intersection of evolution with ecology and genetics, combining the subdisciplines of evolutionary ecology, evolutionary genetics, and ecological genetics. It has two main branches: the creation of diversity and the maintenance of diversity. Both processes are governed by a general mechanism of selection acting over different scales of space and time. This gives rise to a distinctive set of principles and generalizations that regulate rates of diversification and levels of diversity, as well as the abundance or rarity of different species. Conservation biology constitutes the application of these principles in the relevant social and economic context to the management of natural systems, with the object of preventing the extinction of rare species and maintaining the diversity of communities. As the impact of industrialization and population growth on natural systems has become more severe, conservation has emerged as an important area of practical endeavour.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - basic courses in the Biological Principles of Diversity, Systematics, and Conservation

3 credits - Ecology

3 credits - Statistics

9 credits - Interface between Science, Policy, and Management

3 credits - Field Courses

6 credits - General Scientific Principles

3 credits - Social Science

6 credits - Organisms and Diversity

Biological Principles of Diversity/Systematics/Conservation:

9 credits are chosen from basic courses in the biological principles of diversity, systematics, and conservation as follows:

One of:

AEBI 212	(3)	Evolution and Phylogeny
BIOL 304	(3)	Evolution

One of:

AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

One of:

BIOL 465	(3)	Conservation Biology
WILD 421	(3)	Wildlife Conservation

Ecology:

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Statistics:

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

Science, Policy, and Management:

9 credits are chosen from interface between science, policy, and management as follows:

* Note: You may take AGECE 200 or ECON 208, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGRI 550	(3)	Sustained Tropical Agriculture
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
GEOG 302	(3)	Environmental Management 1
GEOG 370	(3)	Protected Areas
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

Field Courses

One of:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

General Scientific Principles

6 credits of general scientific principles selected from the following:

* Note: You may take ENVB 430 or GEOG 306, but not both.

(A second field course from the domain curriculum may also be taken.)

** Note: You may take BIOL 432 or ENVB 315, but not both.

BIOL 324	(3)	Ecological Genetics
BIOL 342	(3)	Marine Biology
BIOL 432**	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 315**	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 430*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
GEOG 272	(3)	Earth's Changing Surface

GEOG 306*	(3)	Raster Geo-Information Science
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
MICR 331	(3)	Microbial Ecology
PLNT 460	(3)	Plant Ecology
WILD 311	(3)	Ethology
WOOD 420	(3)	Environmental Issues: Forestry

Social Science:

One of:

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ANTH 416	(3)	Environment/Development: Africa
ECON 326	(3)	Ecological Economics
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

Organisms and Diversity:

6 credits of organisms and diversity selected as follows:

* Note: You may take BIOL 350 or ENTO 350, but not both; you may take BIOL 540 or ENVR 540, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANTH 311	(3)	Primate Behaviour and Ecology
BIOL 335	(3)	Marine Mammals
BIOL 350*	(3)	Insect Biology and Control
BIOL 355	(3)	Trees: Ecology & Evolution
BIOL 427	(3)	Herpetology
BIOL 540*	(3)	Ecology of Species Invasions
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENVR 540*	(3)	Ecology of Species Invasions
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology
WILD 424	(3)	Parasitology

13.13.12.6 Bachelor of Science (B.Sc.) - Major Environment - Earth Sciences and Economics (66 credits)

The resources necessary for human society are extracted from the Earth, used as raw materials in our factories and refineries, and then returned to the Earth as waste. Geological processes produce resources humans depend on, and they also determine the fate of wastes in the environment. Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. Additionally, economics frequently affects what energy sources power our society and how our wastes are treated. Earth sciences and economics are essential for our understanding of the many mechanisms, both physical and social, that affect Earth's environment.

This domain includes the fundamentals of each discipline. Students learn of minerals, rocks, soils, and waters and how these materials interact with each other and with the atmosphere. Fundamental economic theory and the economic effects of public policy toward resource industries, methods of waste disposal, and the potential effects of global warming on the global economy are also explored.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (21 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 355	(3)	Sedimentary Geology

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

3 credits - Statistics courses

9 credits - List A

12 credits - List B

Statistics:

One of the following Statistics courses or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

List A:

9 credits from:

AGEC 333	(3)	Resource Economics
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 416	(3)	Topics in Economic Development 2
ECON 525	(3)	Project Analysis
ENVB 437	(3)	Assessing Environmental Impact

List B:

12 credits from:

AGRI 435	(3)	Soil and Water Quality Management
ANTH 339	(3)	Ecological Anthropology
BIOL 305	(3)	Animal Diversity
BIOL 553	(3)	Neotropical Environments
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
EPSC 312	(3)	Spectroscopy of Minerals
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotope Geology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 302	(3)	Environmental Management 1

GEOG 322	(3)	Environmental Hydrology
SOIL 510	(3)	Environmental Soil Chemistry

13.13.12.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health - Cellular (63 credits)

The Cellular concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Cellular concentration will explore these interactions in more depth, at a physiological level. Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Course (3 credits)

PARA 410	(3)	Environment and Infection

Domain: Complementary Courses (39 credits)

39 credits of the complementary courses are selected as follows:

21 credits - Fundamentals, 3 credits from each category

12 credits - Human Health, maximum of 3 credits from any one category

6 credits - Natural Environment, maximum of 3 credits from any one category

Fundamentals:

21 credits of Fundamentals, 3 credits from each category.

Health, Society, and Environment

* Note: You may take GEOG 221 or NRSC 221, but not both.

GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
NRSC 221*	(3)	Environment and Health
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness

Toxicology

ANSC 312	(3)	Animal Health and Disease
PHAR 303	(3)	Principles of Toxicology

Cellular Biology

ANSC 234	(3)	Biochemistry 2
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 202	(3)	Molecular Cell Biology

Genetics

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

Molecular Biology

BIOL 200	(3)	Molecular Biology
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Nutrition

* Note: NUTR 307 - Video conference Downtown and at the Macdonald campus

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307*	(3)	Human Nutrition

Human Health:

12 credits chosen from Human Health, maximum of 3 credits from any one category:

Immunology and Pathogenicity

MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease

Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
WILD 424	(3)	Parasitology

Nutrition

NUTR 403	(3)	Nutrition in Society
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Drugs and Hormones

ANSC 424	(3)	Metabolic Endocrinology
PHAR 300	(3)	Drug Action

Physiology

ANSC 323	(3)	Mammalian Physiology
PHGY 209	(3)	Mammalian Physiology 1

Natural Environment:

6 credits chosen from the Natural Environment, maximum of 3 credits from any one category:

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

Techniques and Management

BREE 322	(3)	Organic Waste Management
CHEE 230	(3)	Environmental Aspects of Technology
ENVB 437	(3)	Assessing Environmental Impact

GEOG 302	(3)	Environmental Management 1
URBP 507	(3)	Planning and Infrastructure

Pest Management

* Note: You may take BIOL 350 or ENTO 350, but not both.

BIOL 350*	(3)	Insect Biology and Control
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects

Pollution Control and Management

BREE 518	(3)	Bio-Treatment of Wastes
NRSC 333	(3)	Pollution and Bioremediation

Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both.

BIOL 432	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
ENVR 540*	(3)	Ecology of Species Invasions
MICR 331	(3)	Microbial Ecology
PLNT 304	(3)	Biology of Fungi
PLNT 460	(3)	Plant Ecology

13.13.12.8 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.)- Major Environment - Ecological Determinants of Health - Population (63 credits)

The Population concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health. Students in the Cellular concentration will explore these interactions in more depth, at a physiological level.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-13" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Course (3 credits)

PARA 410	(3)	Environment and Infection

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

21 credits - Fundamentals, maximum of 3 credits from each category

6 credits - List A categories, maximum of 3 credits from any one category

12 credits - List B categories, maximum of 3 credits from any one category

Fundamentals:

21 credits of fundamentals, 3 credits from each category:

Health and Environment

GEOG 221	(3)	Environment and Health
NRSC 221	(3)	Environment and Health

Health and Society

GEOG 303	(3)	Health Geography
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness

Toxicology

ANSC 312	(3)	Animal Health and Disease
PHAR 303	(3)	Principles of Toxicology

Biology

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Nutrition

*Note: NUTR 307 (Video conference Downtown and at the Macdonald campus)

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 207	(3)	Nutrition and Health
NUTR 307*	(3)	Human Nutrition

Advanced Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both.

BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
ENVB 506	(3)	Quantitative Methods: Ecology
ENVR 540*	(3)	Ecology of Species Invasions
MICR 331	(3)	Microbial Ecology
PLNT 460	(3)	Plant Ecology

List A:

6 credits from the following List A categories, maximum of 3 credits from any one category:

Hydrology, Climate, and Agriculture

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

Decision Making and Social Change

* Note: You may take AGECE 200 or ECON 208, but not both.

AGEC 200*	(3)	Principles of Microeconomics
AGEC 242	(3)	Management Theories and Practices
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 208*	(3)	Microeconomic Analysis and Applications
EDER 461	(3)	Society and Change
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PHIL 343	(3)	Biomedical Ethics
URBP 520	(3)	Globalization: Planning and Change

Development and History

AGRI 210	(3)	Agro-Ecological History
ANTH 212	(3)	Anthropology of Development
HIST 292	(3)	History and the Environment
SOCI 254	(3)	Development and Underdevelopment

List B:

12 credits from the following List B categories, maximum of 3 credits from any one category:

Techniques and Management

* Note: You may take ENVB 430 or GEOG 201, but not both.

CHEE 230	(3)	Environmental Aspects of Technology
ENVB 430*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
GEOG 201*	(3)	Introductory Geo-Information Science
URBP 507	(3)	Planning and Infrastructure

Immunology and Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
PARA 438	(3)	Immunology
WILD 424	(3)	Parasitology

Nutrition and Agriculture

* Note: NUTR 512 (Video conference Downtown and at the Macdonald campus)

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
NUTR 403	(3)	Nutrition in Society
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 512*	(3)	Herbs, Foods and Phytochemicals

Populations and Place

CANS 407	(3)	Regions of Canada
GEOG 300	(3)	Human Ecology in Geography
GEOG 498	(3)	Humans in Tropical Environments
PSYC 533	(3)	International Health Psychology

Pollution and Pest Management

BIOL 350	(3)	Insect Biology and Control
BREE 322	(3)	Organic Waste Management
ENTO 352	(3)	Biocontrol of Pest Insects
NRSC 333	(3)	Pollution and Bioremediation

Genetics

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

13.13.12.9 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Environmetrics (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

In view of the crucial need for sound study design and appropriate statistical methods for analyzing environmental changes and their impacts on humans and various life forms and their ecological relationships, this program is intended to provide students with a strong background in the use of statistical methods of data analysis in environmental sciences.

Graduates will be capable of effectively participating in the design of environmental studies and adequately analyzing data for use by the environmental community. Accordingly, the list of courses for the Environmetrics Domain is composed primarily of statistics courses and mathematically oriented courses with biological and ecological applications. The list is completed by general courses that refine the topics introduced in the MSE core courses by focusing on the ecology of living organisms, soil sciences or water resources, and impact assessment. These courses should allow the students to understand their interlocutors and be understood by them in their future job. Students can further develop their background in applied or mathematical statistics and their expertise in environmental sciences by taking complementary courses along each of two axes: statistics and mathematics, and environmental sciences. An internship is also offered to students to provide them with preliminary professional experience.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" (available on the MSE website at <http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Prerequisites and equivalent courses are common with Math courses, so check with your adviser when choosing your courses. Be especially careful with Statistics courses, as you will receive no credit (and no warning!) for a course that is considered equivalent to one you have already taken. Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Statistics courses BIOL 373 OR AEMA 310 can be taken in U1, but do not take them if you want to follow Option 1 (below), as they overlap with MATH 324.

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course if you want to take it on the Downtown campus, and in Section 051 of an ENVR course if you want to take it on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability

ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

AEMA 403	(3)	Environmetrics Stage
AEMA 414	(3)	Temporal and Spatial Statistics 01

Domain - Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

12 credits - Fundamentals

3 credits - Basic Environmental Science

6 credits - Statistics, one of two options

15 credits - List 1 and List 2

Fundamentals:

12 credits of Fundamentals, 3 credits from each category.

Ecology

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Impact

ENVB 437	(3)	Assessing Environmental Impact
MIME 308	(3)	Social Impact of Technology

Modelling

BIOL 309	(3)	Mathematical Models in Biology
ENVB 506	(3)	Quantitative Methods: Ecology

GIS Techniques

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Basic Environmental Science:

One of:

BREE 217	(3)	Hydrology and Water Resources
CIVE 323	(3)	Hydrology and Water Resources
ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography

Statistics:

6 credits of Statistics are selected from one of the following two options.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science. Several Statistics courses overlap (especially with MATH 324) and cannot be taken together. These rules do not apply to B.Sc.(Ag.Env.Sc.) students.

Option 1

MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Option 2

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

And one of:

AEMA 411	(3)	Experimental Designs 01
CIVE 555	(3)	Environmental Data Analysis
GEOG 351	(3)	Quantitative Methods
SOCI 461	(3)	Quantitative Data Analysis

A total of 15 credits are chosen from the following two lists.

List 1

3 credits minimum of statistics and mathematics chosen from:

* Note: or equivalent courses to BREE 252 or BREE 319.

BIOL 434	(3)	Theoretical Ecology
BREE 252*	(3)	Computing for Engineers
BREE 319*	(3)	Engineering Mathematics
GEOG 501	(3)	Modelling Environmental Systems
MATH 223	(3)	Linear Algebra
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Regression and Analysis of Variance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
SOCI 504	(3)	Quantitative Methods 1

SOCI 505	(3)	Quantitative Methods 2
SOCI 580	(3)	Social Research Design and Practice

List 2

3 credits minimum of environmental sciences chosen from:

AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 553	(3)	Neotropical Environments
ENVB 313	(3)	Phylogeny and Biogeography
GEOG 300	(3)	Human Ecology in Geography
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 494	(3)	Urban Field Studies
GEOG 499	(3)	Subarctic Field Studies
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology
WILD 401	(4)	Fisheries and Wildlife Management
WOOD 420	(3)	Environmental Issues: Forestry

13131210 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Food Production and Environment (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. in Environment program.

The business of food production is an area of human activity with a large and intimate interaction with the environment. Modern agriculturalists must strike a delicate balance between trying to provide food for themselves, their families, and urban dwellers and trying to minimize environmental damage. When negative effects due to agricultural activities do occur, they are not usually the classic point-source effects that we have come to associate with industry or large cities. Rather, the effects are over extremely large land areas cumulating, perhaps, in pollution of river systems or lakes some distance away. As world populations grow, and as diets change, potentially negative interactions between agricultural systems and other facets of the environment will become more frequent. In the same way, urban sprawl will make conflicts between agriculture and urbanites more common.

With a judicious choice of courses, graduates of this domain may be eligible to apply for membership in the Ordre des agronomes du Québec (OAQ) and the Agricultural Institute of Canada (AIC).

Program Prerequisites or Corequisites

All students in this program MUST take these pre- or corequisite courses, or their equivalents. These courses are taken as follows:

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
LSCI 211	(3)	Biochemistry 1

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

CHEM 212	(4)	Introductory Organic Chemistry 1
FDSC 230	(4)	Organic Chemistry

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (9 credits)

AEBI 210	(3)	Organisms 1
AGRI 210	(3)	Agro-Ecological History
PLNT 300	(3)	Cropping Systems

Domain: Complementary Courses (33 credits)

33 credits of complementary courses selected as follows:

15 credits - Basic Sciences

12 credits - Applied Sciences

6 credits - Social Sciences/Humanities

Basic Sciences:

15 credits of Basic Sciences selected as follows:

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

One of:

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 250	(3)	Principles of Animal Science

One of:

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Applied Sciences:

12 credits of Applied Sciences from the following:

* Note: You may take BREE 217 or GEOG 322, but not both; you may take FDSC 200 or NUTR 207, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 435	(3)	Soil and Water Quality Management
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
ENVB 437	(3)	Assessing Environmental Impact
FDSC 200*	(3)	Introduction to Food Science
FDSC 535	(3)	Food Biotechnology
GEOG 302	(3)	Environmental Management 1
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
NUTR 207*	(3)	Nutrition and Health
NUTR 403	(3)	Nutrition in Society
PARA 410	(3)	Environment and Infection
PHAR 303	(3)	Principles of Toxicology
PLNT 434	(3)	Weed Biology and Control
SOIL 315	(3)	Soil Fertility and Fertilizer Use
SOIL 445	(3)	Agroenvironmental Fertilizer Use
SOIL 510	(3)	Environmental Soil Chemistry

WILD 401 (4) Fisheries and Wildlife Management

Social Sciences/Humanities:

6 credits in Social Sciences and Humanities are selected as follows:

* Note: You may take AGECE 200 or ECON 208, but not both; you may take AGECE 333 or ECON 405, but not both.

** Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 320	(3)	Intermediate Microeconomic Theory
AGECE 333*	(3)	Resource Economics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
ECON 405*	(3)	Natural Resource Economics
GEOG 404	(3)	Environmental Management 2
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
SOCI 254	(3)	Development and Underdevelopment
SOCI 565	(3)	Social Change in Panama
WILD 415**	(2)	Conservation Law

13131211 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment-Land Surface Processes and Environmental Change (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The thin soil layer on the planet's land surfaces controls the vital inputs of water, nutrients, and energy to terrestrial and freshwater aquatic ecosystems. Widespread occurrences around the globe of desertification, soil erosion, deforestation, and land submergence over water reservoirs indicate that this dynamic system is under increasing pressure from population growth and changes in climate and land uses. Production of key greenhouse gases (water vapour, CO₂, and methane) is controlled by complex processes operating at the land surface, involving climate change feedbacks that need to be fully understood, given current global warming trends.

The program introduces students to the interacting physical and biogeochemical processes at the atmosphere-lithosphere interface, which fashion land surface habitats and determine their biological productivity and response to anthropogenic or natural environmental changes. Through an appropriate selection of courses, students can prepare for graduate training in emerging research areas such as earth system sciences, environmental hydrology, and landscape ecology.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses.

Location Note: Core Required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability

ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain Required Course (3 credits)

GEOG 203	(3)	Environmental Systems

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

9 credits - 3 credits from each category of Statistics, GIS and Remote Sensing Techniques, Weather and Climate

9 credits of fundamental land surface processes

3 credits of environment and resource management

3 credits of field course

3 credits of social science

12 credits total of advanced studies chosen from List A: Particular Environments and List B: Surface Processes

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

GIS and Remote Sensing Techniques

One of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

Weather and Climate

One of:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Fundamental Land Surface Processes:

9 credits of fundamental land surface processes chosen as follows:

GEOG 321	(3)	Climatic Environments

And/or one of:

GEOG 272	(3)	Earth's Changing Surface

SOIL 300	(3)	Geosystems

And/or one of:

GEOG 305	(3)	Soils and Environment

SOIL 326	(3)	Soils in a Changing Environment

And/or one of:

BREE 217	(3)	Hydrology and Water Resources

GEOG 322	(3)	Environmental Hydrology

Environment and Resource Management:

One of:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AGRI 435	(3)	Soil and Water Quality Management

AGRI 452	(3)	Water Resources in Barbados

AGRI 550	(3)	Sustained Tropical Agriculture

BIOL 308*	(3)	Ecological Dynamics

BIOL 465	(3)	Conservation Biology

CHEE 230	(3)	Environmental Aspects of Technology

CIVE 225	(4)	Environmental Engineering

ENVB 305*	(3)	Population & Community Ecology

ENVB 437	(3)	Assessing Environmental Impact

ESYS 301	(3)	Earth System Modelling

GEOG 302	(3)	Environmental Management 1

GEOG 404	(3)	Environmental Management 2

WILD 421	(3)	Wildlife Conservation

WOOD 420	(3)	Environmental Issues: Forestry

WOOD 441	(3)	Integrated Forest Management

Field Course:

One of:

BIOL 553	(3)	Neotropical Environments

GEOG 495	(3)	Field Studies - Physical Geography

GEOG 496	(3)	Geographical Excursion

GEOG 499	(3)	Subarctic Field Studies

WILD 475	(3)	Desert Ecology

Social Science:

One of:

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 405	(3)	Natural Resource Economics
GEOG 221	(3)	Environment and Health
GEOG 408	(3)	Geography of Development
GEOG 498	(3)	Humans in Tropical Environments
NRSC 221	(3)	Environment and Health
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change

12 credits total of advanced studies chosen from the following two lists:

List A - Particular Environments:

3-9 credits of advanced study of Particular Environments:

* Note: You may take BIOL 432 or ENVB 315, but not both.

BIOL 432*	(3)	Limnology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
GEOG 350	(3)	Ecological Biogeography
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 536	(3)	Geocryology
GEOG 550	(3)	Historical Ecology Techniques
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

List B - Surface Processes:

3-9 credits advanced study of Surface Processes:

ATOC 315	(3)	Thermodynamics and Convection
BREE 509	(3)	Hydrologic Systems and Modelling
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 331	(3)	Soil Physics
SOIL 510	(3)	Environmental Soil Chemistry

13131212 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Renewable Resource Management (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

Renewable resource management is an emerging field that focuses on the ecosystem structures and processes required to sustain the delivery, to humanity, of ecosystem goods and services such as food, clean water and air, essential nutrients, and the provision of beauty and inspiration. Renewable resource management recognizes humans as integral components of ecosystems and is used to develop goals that are consistent with sustainability and ecosystem maintenance.

The Renewable Resource Management domain provides students with an understanding of: 1) the interactions between physical and biological factors that determine the nature and dynamics of populations and entities in the natural environment; 2) the ways in which ecosystems can be managed to meet specific goals for the provision of goods and services; 3) the economic and social factors that determine how ecosystems are managed; 4) the ways in which management of natural resources can affect the capability of natural ecosystems to continue to supply human needs in perpetuity; and 5) the approaches and technologies required to monitor and analyze the dynamics of natural and managed ecosystems.

Program Prerequisites or Corequisites

All students in this program MUST take the following pre- or corequisite courses:

One of the following biology courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
LSCI 211	(3)	Biochemistry 1

One of the following chemistry courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

CHEM 212	(4)	Introductory Organic Chemistry 1
FDSC 230	(4)	Organic Chemistry

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research

ENVR 451 (6) Research in Panama

Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - Basic Principles of Ecosystem Processes and Diversity

6 credits - 3 credits from each category of Statistics and GIS

6 credits - Advanced Ecosystem Components

6 credits - Advanced Ecological Processes

6 credits - Social Processes

9 credits - Ecosystem Components or Management of Ecosystems

Basic Principles of Ecosystem Processes:

9 credits of basic principles of ecosystem processes and diversity are selected as follows:

One of:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

Statistics

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

GIS Methods

One of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Advanced Ecosystem Components:

6 credits of advanced ecosystem components selected from:

BIOL 553	(3)	Neotropical Environments
GEOG 372	(3)	Running Water Environments
PLNT 358	(3)	Flowering Plant Diversity

SOIL 326	(3)	Soils in a Changing Environment
WILD 307	(3)	Natural History of Vertebrates

Advanced Ecological Processes:

6 credits of advanced ecological processes selected from:

* Note: You may take BIOL 432 or ENVB 315, but not both; you can take BREE 217 or GEOG 322, but not both.

BIOL 432*	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology

Social Processes:

6 credits of social processes selected as follows:

* If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

** Note: You may take AGECE 333 and ECON 405, but not both.

AGECE 242	(3)	Management Theories and Practices
AGECE 333**	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
CANS 407	(3)	Regions of Canada
ECON 405**	(3)	Natural Resource Economics
GEOG 382	(3)	Principles Earth Citizenship
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

Ecosystem Components or Management of Ecosystems:

9 credits of ecosystem components or management of ecosystems selected from:

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
ENVB 437	(3)	Assessing Environmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PLNT 300	(3)	Cropping Systems
SOIL 335	(3)	Soil Ecology and Management

WILD 401	(4)	Fisheries and Wildlife Management
WOOD 441	(3)	Integrated Forest Management

13131213 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment -Water Environments and Ecosystems - Biological (60 credits)

This concentration (60 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

To educate students in both the ecological and physical facets of the water environment, this domain offers two concentrations, with students choosing one or the other.

Those electing the Biological concentration will focus on the mechanisms regulating the different forms of life in water bodies. They will acquire, as well, a good understanding of the physical mechanisms controlling water properties. Students interested in studying the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere, will select the Physical concentration. They will acquire, as well, a solid background in the biological processes taking place in water bodies.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography, and atmospheric science.

Suggested First Year (U1) Courses

For suggestions of courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate

Domain: Complementary Courses (33 credits)

33 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population/Community and Ecology

3 credits - Math and Statistics

3 credits - Field Course

3 credits - Social Sciences and Policy

18 credits chosen in total from List A and List B

Hydrology/Water Resources, Population/Community and Ecology:

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Math and Statistics:

One of:

* Note: AEMA 310 or equivalent

AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
GEOG 495	(3)	Field Studies - Physical Geography

Social Sciences and Policy:

One of:

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
POLI 345	(3)	International Organizations
SOCI 565	(3)	Social Change in Panama
URBP 520	(3)	Globalization: Planning and Change

18 credits chosen in total from List A and List B as follows:

List A

9-12 credits chosen from:

* Note: you may take BIOL 540 or ENVR 540, but not both; you may take ENVB 210 or GEOG 305, but not both; you may take BIOL 432 or ENVB 315, but not both.

AGRI 435	(3)	Soil and Water Quality Management
BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
BIOL 570	(3)	Advanced Seminar in Evolution
ENTO 535	(3)	Aquatic Entomology
ENVB 210*	(3)	The Biophysical Environment
ENVB 315*	(3)	Science of Inland Waters
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 305*	(3)	Soils and Environment
GEOG 350	(3)	Ecological Biogeography
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
WILD 401	(4)	Fisheries and Wildlife Management

List B

6-9 credits chosen from:

* Note: you may take ATOC 219 or CHEM 219, but not both; you may take ATOC 419 or CHEM 419, but not both; you may take ENVB 430 or GEOG 201, but not both; CHEM 287 and CHEM 297 must be taken together.

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 419*	(3)	Advances in Chemistry of Atmosphere
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 287*	(2)	Introductory Analytical Chemistry
CHEM 297*	(1)	Introductory Analytical Chemistry Laboratory
CHEM 419*	(3)	Advances in Chemistry of Atmosphere
ENVB 430*	(3)	GIS for Natural Resource Management
EPSC 220	(3)	Principles of Geochemistry
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques

13131214 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Water Environments and Ecosystems - Physical (63 credits)

This concentration (60 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

To educate students in both the ecological and physical facets of the water environment, this domain offers two concentrations, with students choosing one or the other.

Students interested in studying the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere, will select the Physical concentration. They will acquire, as well, a solid background in the biological processes taking place in water bodies. Those electing the Biological concentration will focus on the mechanisms regulating the different forms of life in water bodies. They will acquire, as well, a good understanding of the physical mechanisms controlling water properties.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography, and atmospheric science.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook 2012-2013" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Note: Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (12 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 315	(3)	Thermodynamics and Convection
GEOG 372	(3)	Running Water Environments

Domain: Complementary Courses (30 credits)

30 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population, Community and Ecology

3 credits - Statistics or Calculus

3 credits - Field course

12 credits chosen from List A

6 credits chosen from List B

Hydrology/Water Resources, Population/Community and Ecology

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

Statistics or Calculus:

One of:

* Note: AEMA 310 or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
GEOG 495	(3)	Field Studies - Physical Geography

List A:

12 credits chosen from:

AGRI 435	(3)	Soil and Water Quality Management
ATOC 309	(3)	Weather Radars and Satellites
ATOC 568	(3)	Ocean Physics
BREE 416	(3)	Engineering for Land Development
CIVE 323	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 510	(3)	Agricultural Micrometeorology

URBP 520	(3)	Globalization: Planning and Change

And/or one of:

AEMA 305	(3)	Differential Equations
MATH 315	(3)	Ordinary Differential Equations

And/or one of:

BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling

And/or one of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

And/or one of:

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 306	(3)	Raster Geo-Information Science

List B:

6 credits chosen from:

* Note: You can take BIOL 432 or ENVB 315, but not both.

BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
ENVB 315*	(3)	Science of Inland Waters
GEOG 350	(3)	Ecological Biogeography
GEOG 505	(3)	Global Biogeochemistry
WILD 401	(4)	Fisheries and Wildlife Management

13131215 Bachelor of Science (B.Sc.) - Honours Environment (72 credits)

This program is open only to students in the B.Sc. Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc. Honours programs complete the core and domain courses (60 to 66 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

Honours Required Courses (6 credits)

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

13131216 Diploma in Environment (30 credits)

The Diploma in Environment is designed for students with an undergraduate degree who wish to enrich or reorient their training, supplementing their specialization with additional undergraduate-level course work in Environment.

The diploma requires 30 credits of full-time or part-time studies at McGill; it may be started in either January or September. The diploma is a one-year program if taken full-time.

Students holding a B.Sc. or a B.A. degree or equivalent in good standing will be permitted to register for the diploma through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or the Faculty of Science, provided they are otherwise acceptable for admission to the University.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. All courses must be at the 200 level and above, and completed with a grade of C or better.

Location Note:

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (18 credits)

Location Note: The ENVR courses are offered on both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

3 credits - must be taken with the approval of the Program Adviser in an area outside of the student's previous degree (e.g., those with a B.A. or equivalent degree must take at least 3 credits in the natural sciences; those with a B.Sc. or equivalent degree must take at least 3 credits in the social sciences). A list of Suggested Courses is given below.

9 credits - must be taken in an area of focus chosen by the student with the approval of the Program Adviser. At least 6 credits must be taken at the 400 level or higher. A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not meant to be exhaustive. You are also encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included in the diploma with the permission of the Program Adviser.

Social Sciences and Policy

* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: Society, Law and Policy
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 370	(3)	Protected Areas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues in Water
PHIL 230	(3)	Introduction to Moral Philosophy 1

PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

Natural Sciences and Technology

* Note: You may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take ENVB 430 or GEOG 201, but not both; you may take BREE 217 or GEOG 322, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society

BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact of Technology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology

MIMM 324	(3)	Fundamental Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspectives on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshwater Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

13.13.13 Experimental Medicine (EXMD)

13.13.13.1 Location

Lady Meredith House, Room 101
1110 Pine Avenue West
Montreal, Quebec H3A 1A3

Telephone: 514-398-3466

Email: experimental.medicine@mcgill.ca

Website: www.medicine.mcgill.ca/expmed

13.13.13.2 About Experimental Medicine

Experimental Medicine is a Division of the Department of Medicine. There are no B.Sc. programs in Experimental Medicine, but the EXMD courses listed below are considered as courses taught by the Faculty of Science.

Experimental Medicine Courses

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
EXMD 509	(3)	Gastrointestinal Physiology and Pathology
EXMD 510	(3)	Bioanalytical Separation Methods
EXMD 511	(3)	Joint Venturing with Industry

13.13.14 Field Study

For details about the available Field Study Semesters, see *Programs, Courses and University Regulations > Faculties & Schools > [Field Studies](#)*.

13.13.14.1 Field Studies - Minor Field Studies (18 credits)

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester, the Barbados Field Study Semester, the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, or the Panama Field Study Semester may complete the 18-credit Minor in Field Studies.

The Minor consists of the 15 credits of a field study semester plus three additional complementary credits chosen by the student in consultation with their departmental adviser and/or the Field Study Minor adviser.

For students in the B.Sc. Liberal Program, the Field Studies Minor can serve as the breadth component.

Program descriptions for each of the field study semesters are provided below.

Note: The field study semesters are not degree programs. Credits may be counted toward McGill degrees with the permission of program advisers. Students who complete a field study semester may consult the Field Study Minor adviser about completing the Minor program as part of their McGill degree.

Africa Field Study Semester (15 credits)

The Africa Field Study Semester (AFSS) is run through McGill's Canadian Field Study in Africa Program (CFSIA).

The AFSS provides one term of integrated field study in East Africa, with emphasis on environmental conservation, culture change, and sustainable development. Students investigate challenges of sustaining biological diversity and social justice in African environments subject to cultural change, economic development, and environmental stress. Cultural and ecological variation is examined in highland, montane, rangeland, desert, riverine, salt- and fresh-water lake, coastal, and urban settings.

Africa Field Study Semester - Required Courses

6 credits

Students select one course titled "Research in Society and Development in Africa" and one course titled "Research in Ecology and Development in Africa" from the courses below.

ANTH 451	(3)	Research in Society and Development in Africa
BIOL 451	(3)	Research in Ecology and Development in Africa
GEOG 451	(3)	Research in Society and Development in Africa
NRSC 451	(3)	Research in Ecology and Development In Africa

Africa Field Study Semester - Complementary Courses

9 credits from:

* Note: Courses marked with an asterisk ("*") are offered on a rotational basis, at least 3 credits annually.

ANTH 411	(3)	Primate Studies & Conservation
ANTH 416	(3)	Environment/Development: Africa
BIOL 428	(3)	Biological Diversity in Africa
BIOL 429	(3)	East African Ecology
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 423	(3)	Dilemmas of Development
HIST 413	(3)	Independent Research
NRSC 405	(3)	Natural History of East Africa
NUTR 403*	(3)	Nutrition in Society
REDM 405	(3)	Natural History of East Africa
WILD 420*	(3)	Ornithology

Barbados Field Study Semester (15 credits)

The Barbados Field Study Semester (BFSS) provides one term of integrated field study for students with an interest in global issues related to natural resource use as affected by socio-economic, management, urban, and physical constraints. Offered at the Bellairs Research Institute in Barbados, this program challenges students to be more effective environmental decision makers, policy makers, and managers. There is a growing need for professionals with such skills at all levels of government, within NGOs, and in the private sector. The overall goal of the BFSS is to equip future leaders to address the complexity

of issues associated with the formulation and implementation of organizational strategies compatible with the societal goal of sustainable use and development of our natural resources.

The BFSS is intended for senior undergraduate students from across the University. Students must apply to participate in the program. Selection will be based on the student's Academic Standing and demonstrated interests and involvement in international issues related to natural resource use.

Barbados Field Study Semester - Required Courses

6 credits

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Barbados Field Study Semester - Complementary Courses

9 credits

Students select one 3-credit course titled "Water Resources in Barbados" and one 6-credit course titled "Sustainable Development Plans" from the list below.

AGRI 452	(3)	Water Resources in Barbados
AGRI 519	(6)	Sustainable Development Plans
CIVE 452	(3)	Water Resources in Barbados
CIVE 519	(6)	Sustainable Development Plans
URBP 519	(6)	Sustainable Development Plans

Barbados Interdisciplinary Tropical Studies Field Semester (15 credits)

The Barbados Interdisciplinary Tropical Studies (BITS) Field Semester is an activity-filled, hands-on experience for students with an interest in international studies with a Caribbean flavour. The focus is on sustainable agri-food, nutrition, and energy production on a tropical island with a tourist-based economy. It is offered annually (in the Summer). It consists of two 2-hour orientation sessions conducted on the Macdonald campus and at the Bellairs Research Institute in Barbados, followed by three 3-credit and one 6-credit project courses at Bellairs Research Institute. This program integrates intensive course work with group project work and contributes to the formation of professionals with planning, managing, decision-making, and communication skills. The program addresses a global need for experienced professionals capable of interacting with various levels of government, non-governmental organizations, and the private sector. BITS welcomes applications from senior undergraduate students from across the University.

Barbados Interdisciplinary Tropical Studies Field Semester - Required Courses

15 credits

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

Panama Field Study Semester (15 credits)

This program is offered in Panama with the support of the Smithsonian Tropical Research Institute (STRI).

Hands-on experience is gained through research projects organized around multidisciplinary environmental issues. The nature of these projects will centre on practical environmental problems/questions important for Panama. Students will form teams that will work with Panamanian institutions (NGO, governmental, or research).

There is a one- or two-day period of transition and 13 weeks of course attendance in Panama. Field trips will be integrated into each of the courses offered.

Panama Field Study Semester - Required Courses

9 credits

BIOL 553	(3)	Neotropical Environments
ENVR 451	(6)	Research in Panama

Panama Field Study Semester - Complementary Courses

6 credits

Complementary courses change from year to year. Students will register for the 6 credits offered the Winter of their participation in the field study semester.

Winter 2014 complementary courses:

AGRI 550	(3)	Sustained Tropical Agriculture
GEOG 498	(3)	Humans in Tropical Environments

Winter 2015 complementary courses:

GEOG 404	(3)	Environmental Management 2
HIST 510	(3)	Environmental History of Latin America (Field)

Minor Field Studies - Complementary Course

In consultation with their departmental adviser and/or the Field Study Minor adviser, students who have completed one of the field study semesters described above may select a 3-credit complementary course to complete the requirements for the Minor and ask for it to be added to their academic records.

13.13.15 General Science

13.13.15.1 Location

Interdisciplinary Programs Adviser
Wendy Brett, Adviser
Telephone: 514-398-7330
Email: wendy.brett@mcgill.ca

13.13.15.2 About the General Science Minor

The Minor in General Science is only open to students in a B.Sc. Liberal program. Students interested in completing this Minor must consult with the Adviser for this program. See the program description in [section 13.13.15.3: Bachelor of Science \(B.Sc.\) - Minor General Science \(18 credits\)](#) for more information.

13.13.15.3 Bachelor of Science (B.Sc.) - Minor General Science (18 credits)

The Minor General Science is restricted to students in the B.Sc. Liberal program and may be used for the breadth component in this option. Students should consult their program adviser for their core science component and the Interdisciplinary Programs Adviser when selecting courses for this Minor.

Complementary Courses (18 credits)

Courses are to be chosen according to the following guidelines:

All courses must be offered by the Faculty of Science and must be at or above the 200 level*.

All courses must be different from the student's core science component courses.

Two options:

9 credits at the 300 level or above and at least 9 credits outside the student's core science component subject.

or

12 credits at the 300 level or above and at least 6 credits outside the student's core science component subject.

* Note: All Undergraduate research project courses with the 396 or 397 course number cannot be used toward the Minor General Science.

13.13.16 Geography (GEOG)

13.13.16.1 Location

Burnside Hall, Room 705
805 Sherbrooke Street West
Montreal, Quebec H3A 0B9

Telephone: 514-398-4951 or 514-398-4111
 Fax: 514-398-7437
 Website: www.geog.mcgill.ca

13.13.16.2 About Geography

The Department of Geography offers programs in both Arts and Science. All B.A. programs in Geography (including Urban Systems) can be found under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.23: Geography (GEOG)*.

Geography is a broad, holistic discipline; both a natural and a social science because it examines people and their environment and serves as a bridge between physical and cultural processes. Human Geography (a social science, thus B.A. programs) is concerned especially with the political, economic, social, and cultural processes and resource practices that create spatial patterns and define particular places. Physical Geography (B.Sc. programs) integrates disciplines such as climatology, geomorphology, geology, biology, hydrology, ecology, soil science, and even marine science. Whether considering greenhouse gas emissions, the spread of disease, or threats to biodiversity, in all cases geographers are interested in where things happen, why, and with what consequences.

Our graduates go on to careers in environmental consulting, social agencies, or non-governmental organizations. Skills in Geographic Information Science (GIS) are very marketable. Students are well prepared for graduate work in social sciences, urban planning, and environmental studies at leading schools.

13.13.16.3 Prerequisites

There are no departmental prerequisites for entrance to the B.Sc. Geography programs. Students who have completed college or pre-university geography courses fully equivalent to those in the first year of university may, with an adviser's approval, substitute other courses as part of their program.

A Science Major Concentration in Geography – Physical Geography option is available to students pursuing the B.A. & Sc. degree. This Major concentration is described in *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > Academic Programs > section 4.10.22: Geography (GEOG)*.

13.13.16.4 Geography (GEOG) Faculty

Chair

T.R. Moore

Emeritus Professors

W. Armstrong

S.H. Olson

Professors

P.G. Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (*joint appt. with McGill School of Environment and Natural Resource Sciences*)

O.T. Coomes; B.Sc.(Vic., BC), M.A.(Tor.), Ph.D.(Wisc.)

T.R. Moore; B.Sc.(Swansea), Ph.D.(Aberd.)

W.H. Pollard; B.A., M.Sc.(Guelph), Ph.D.(Ott.)

N.T. Roulet; B.Sc., M.Sc.(Trent), Ph.D.(McM.) (*James McGill Professor*)

G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

Associate Professors

S. Breau; B.A.(Moncton), M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; B.S.(Mass.), M.S.(Rhode Is.), Ph.D.(L.S.U.)

B. Forest; A.B.(Chic.), M.A., Ph.D.(Calif.-LA)

M.F. Lapointe; B.Sc., M.Sc.(McG.), Ph.D.(Br. Col.)

B. Lehner; Dip. Hydrol.(Freiburg), Ph.D.(Frankfurt)

T.C. Meredith; B.E.S.(Wat.), M.Sc., Dip.Cons.(Lond.), Ph.D.(Camb.)

N. Ramankutty; B.E.(P.S.G. Coll. of Tech.), M.S.(Ill.), Ph.D.(Wisc.)

N.A. Ross; B.A., M.A.(Qu.), Ph.D.(McM.)

R. Sengupta; B.Sc.(Bombay), M.Sc.(IIT, Mumbai), M.S., Ph.D.(S. Ill.-Carbondale) (*joint appt. with McGill School of Environment*)

R.E. Sieber; B.Sc.(Mich. St.), M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

Associate Professors

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

S. Turner; B.Soc.Sci., M.Soc.Sc.(Waikato), Ph.D.(Hull)

J. Unruh; B.A.(Kansas), M.S.(Wisc.), Ph.D.(Ariz.)

Assistant Professors

L. Berrang Ford; B.Sc.(Guelph), M.Sc.(Oxf.), Ph.D.(Guelph)

J. Ford; B.A., M.Sc.(Oxf.), Ph.D.(Guelph)

M. Kalácska; B.Sc., M.Sc., Ph.D.(Alta.)

N. Oswin; B.A. Hons.(Tor.), M.A.(Dal.), Ph.D.(Br. Col.)

J. Rhemtulla; B.Sc.(McG.), M.Sc.(Alta.), Ph.D.(Wisc. Madison) (*joint appt. with McGill School of Environment*)

13.13.16.5 Bachelor of Science (B.Sc.) - Minor Geography (18 credits)

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (12 credits)

GEOG 203	(3)	Environmental Systems
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 302	(3)	Environmental Management 1

Complementary Courses (6 credits)

6 credits of Geography courses at the 300 and 400 level.

13.13.16.6 Bachelor of Science (B.Sc.) - Minor Geographic Information Systems and Remote Sensing (18 credits)

The Geographic Information Systems (GIS) and Remote Sensing Minor program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing

Complementary Courses (6 credits)

3 credits selected from:

GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

3 credits selected from:

ANTH 511	(3)	Computational Approaches to Prehistory
ATOC 309	(3)	Weather Radars and Satellites

COMP 202	(3)	Foundations of Programming
COMP 208	(3)	Computers in Engineering
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 506*	(3)	Advanced Geographic Information Science
GEOG 535*	(3)	Remote Sensing and Interpretation

* GEOG 506 or GEOG 535 may be taken in either list of complementary courses, but credits from one group may not be double-counted in the other.

13.13.16.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Geography (49 credits)

Required Courses (22 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 290	(1)	Local Geographical Excursion
GEOG 302	(3)	Environmental Management 1
GEOG 351	(3)	Quantitative Methods

Complementary Courses (27 credits)

One course (3 credits) from the following statistics* courses.

* Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

One course (3 credits) from the following GIS/Remote Sensing courses:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing

Four courses (12 credits) from the following:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

One course (3 credits) from the following field courses:

(Field course availability is determined each year in February.)

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Two additional courses (6 credits) from the list of approved Geography courses below, including at least one at the 400 level or above.

GEOG 404	(3)	Environmental Management 2
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

13.13.16.8 Bachelor of Science (B.Sc.) - Major Geography (58 credits)

The Major is designed to provide a coverage of the main elements of physical geography.

Required Courses (22 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 290	(1)	Local Geographical Excursion
GEOG 302	(3)	Environmental Management 1
GEOG 351	(3)	Quantitative Methods

Complementary Courses (36 credits)

3 credits of statistics:

Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

3 credits of GIS techniques:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

12 credits of systematic physical geography:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

3 credits of field courses:

(Field course availability is determined each year in February.)

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

15 credits from approved courses in Geography, or elsewhere in the Faculty of Science, or in the Faculty of Engineering; at least 9 credits of which are to be taken outside Geography. Students may also include any courses that are not already counted towards the GIS techniques or the systematic physical geography requirements. Admission to 500-level courses in Geography requires the instructor's permission. It is not advisable to take more than one 500-level course in a term.

Advising Note: See the Geography website for the list of approved courses in the Faculty of Science. Some courses require the permission of the Department and from the Associate Dean of Science, Student Affairs.

Geography Approved Course List - Major, Honours and Liberal Programs

GEOG 404	(3)	Environmental Management 2
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

13.13.16.9 Bachelor of Science (B.Sc.) - Honours Geography (66 credits)

The Honours program is designed to provide specialized systematic training in physical geography. In addition to the Faculty requirement that Honours students maintain a minimum CGPA of at least 3.00, students who enter a Geography Honours program on or after September 2006 must have a program GPA of 3.30.

Honours students are encouraged to participate in 500-level seminars with graduate students, but it is not advisable to take more than one per term.

Required Courses (24 credits)

GEOG 201	(3)	Introductory Geo-Information Science

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 302	(3)	Environmental Management 1
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research

Complementary Courses (42 credits)

6 credits of introductory courses, two of:

GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World

3 credits of statistics*, one of:

* Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

3 credits of GIS techniques:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

12 credits of systematic physical geography:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

3 credits of field courses:

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

15 credits from approved courses in Geography, or elsewhere in the Faculty of Science or the Faculty of Engineering; at least 9 credits of which are to be taken outside Geography. Students may also include any courses that are not already counted towards the GIS techniques or the systematic physical geography requirements. Admission to 500-level courses in Geography requires the instructor's permission. It is not advisable to take more than one per term.

Advising Note: See the Geography website for the list of approved courses in the Faculty of Science. Some courses require the permission of the Department and from the Associate Dean of Science, Student Affairs.

GEOG 404	(3)	Environmental Management 2
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

13.13.16.10 Geography (GEOG) Related Programs and Study Semesters

13.13.16.10.1 African Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary African Field Study Semester; see www.mcgill.ca/africa.

13.13.16.10.2 Panama Field Study Semester

The program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. For more information, see www.mcgill.ca/pfss.

13.13.16.10.3 Earth System Science Interdepartmental Major

For more information, see [section 13.13.11: Earth System Science \(ESYS\)](#).

This program is offered by the Department of Atmospheric & Oceanic Sciences, Earth & Planetary Sciences, and Geography.

Students in the Department of Geography interested in this program should contact: Professor Jeffrey McKenzie (jeffrey.mckenzie@mcgill.ca).

13.13.16.10.4 Bachelor of Arts and Science (B.A. & Sc.) Interfaculty Program in Sustainability, Science and Society

The Interfaculty Program in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

Adviser: Prof. Navin Ramankutty

Email: navin.ramankutty@mcgill.ca

Telephone: 514-398-8428

For further information about this program, see *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > Academic Programs > Sustainability, Science and Society > [section 4.10.45.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 credits\)](#)*.

13.13.17 Immunology

13.13.17.1 Location

Montreal General Hospital
Room L11.132-44
1650 Cedar Avenue
Montreal, Quebec H3G 1A4

or

McIntyre Medical Sciences Building, Room 1136
3655 Promenade Sir-William-Osler
Montreal, Quebec H3G 1Y6

13.13.17.2 About Immunology

Three departments offer the Honours program in Immunology: Biochemistry, Microbiology and Immunology, and Physiology, combining elements of each. The program is a demanding one, which will prepare the student for graduate work in immunology.

This program is comprised of a core of 48 credits in basic science courses in cell and molecular biology, microbiology, biochemistry, and physiology. An additional 27 complementary credits may be selected from a broad selection of science courses. The remaining 13 credits are free electives, enabling the student to explore related science disciplines. Finally, an undergraduate research project, seminar, and thesis provides an opportunity to directly experience research work in a laboratory with a professor of immunology.

Students who do not maintain Honours standing must transfer their registration to a program in one of the three participating departments.

Apply to Dr. C. Piccirillo, Microbiology and Immunology, Room L11.132–44, Montreal General Hospital, 1650 Cedar Avenue, Montreal, QC, H3G 1A4; c.piccirillo@mcgill.ca; 514-934-1934 ext. 45135, fax: 514-934-8332; **or** Dr. Monroe Cohen, Physiology, Room 1136, McIntyre Medical Sciences Building, 3655 Promenade Sir-William-Osler, Montreal, QC, H3G 1Y6; monroe.cohen@mcgill.ca; 514-398-4342.

13.13.17.3 Bachelor of Science (B.Sc.) - Honours Immunology (Interdepartmental) (75 credits)

Students must obtain a U1 GPA or a U2 CGPA of 3.30 for admission to this enrolment-limited program. U1 students should inform one of the program coordinators of their intent to enter the Honours Immunology (Interdepartmental) program during their U1 Winter term and confirm their intention in writing by April 1. U2 or U3 students can apply for admission at any time.

For graduation in the Honours program, the student must complete a minimum of 90 credits, and achieve a CGPA of not less than 3.30. The immunology courses (BIOC 503, MIMM 314, MIMM 414, MIMM 509, PHGY 419D1/D2, PHGY 513, PHGY 531) must all be passed with a grade not less than B.

Required Courses (48 credits)**U1 Required Courses**

20 credits selected as follows:

* Students select either BIOC 212 or BIOL 201.

** Students select either PHGY 209 or MIMM 211.

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
MIMM 211**	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209**	(3)	Mammalian Physiology 1

U2 Required Courses

13 credits from the following:

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
MIMM 314	(3)	Intermediate Immunology

U3 Required Courses

15 credits from the following:

MIMM 414	(3)	Advanced Immunology
PHGY 419D1	(4.5)	Immunology Research Project
PHGY 419D2	(4.5)	Immunology Research Project
PHGY 513	(3)	Cellular Immunology

Complementary Courses (27 credits)

U1 Complementary Courses

6 credits chosen for U1 complementary courses in the following manner.

3 credits selected from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

plus 3 credits selected from the following:

* Students take CHEM 287 and CHEM 297.

** Students take either PHYG 209 or MIMM 211.

*** Students take either CHEM 203 or CHEM 204.

ANAT 214	(3)	Systemic Human Anatomy
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 304	(3)	Evolution
CHEM 203***	(3)	Survey of Physical Chemistry
CHEM 204***	(3)	Physical Chemistry/Biological Sciences 1
CHEM 287*	(2)	Introductory Analytical Chemistry
CHEM 297*	(1)	Introductory Analytical Chemistry Laboratory
COMP 202	(3)	Foundations of Programming
COMP 250	(3)	Introduction to Computer Science
MATH 204	(3)	Principles of Statistics 2
MIMM 211**	(3)	Introductory Microbiology
MIMM 212	(2)	Laboratory in Microbiology
PHGY 209**	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Complementary Courses

12 credits chosen as follows:

6 credits selected from:

Students may select

* BIOC 300D1 and BIOC 300D2 or

** MIMM 386D1 and MIMM 386D2 or

*** PHGY 212 and PHGY 213 and BIOL 301

BIOC 300D1*	(3)	Laboratory in Biochemistry
BIOC 300D2*	(3)	Laboratory in Biochemistry
BIOL 301***	(4)	Cell and Molecular Laboratory
MIMM 386D1**	(3)	Laboratory in Microbiology and Immunology
MIMM 386D2**	(3)	Laboratory in Microbiology and Immunology
PHGY 212***	(1)	Introductory Physiology Laboratory 1

PHGY 213*** (1) Introductory Physiology Laboratory 2

plus 6 credits, selected from:

* Students take either BIOL 309 or MATH 315, but not both.

ANAT 365	(3)	Cellular Trafficking
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309*	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
CHEM 302	(3)	Introductory Organic Chemistry 3
MATH 222	(3)	Calculus 3
MATH 315*	(3)	Ordinary Differential Equations
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

U3 Complementary Courses

9 credits of U3 complementary courses chosen in the following manner:

3 credits selected from:

BIOC 503	(3)	Immunochemistry
MIMM 509	(3)	Inflammatory Processes
PHGY 531	(3)	Topics in Applied Immunology

plus 6 credits selected from:

* Students take either ANAT 458 or BIOC 458, but not both.

ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 404	(3)	Biophysical Chemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
BIOL 520	(3)	Gene Activity in Development
MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

MIMM 509	(3)	Inflammatory Processes
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 531	(3)	Topics in Applied Immunology
PHGY 552	(3)	Cellular and Molecular Physiology

13.13.18 Interdisciplinary Life Sciences

13.13.18.1 Location

Interdisciplinary Programs Adviser
Wendy Brett, Adviser
Telephone: 514-398-7330
Email: wendy.brett@mcgill.ca

13.13.18.2 About the Interdisciplinary Life Sciences Minor

The Interdisciplinary Life Sciences Minor allows students to obtain exposure to Life Sciences and life science related areas. Students must consult with the Adviser to review course selection.



Please note: Students studying in Anatomy and Cell Biology; Biochemistry; Microbiology and Immunology; and Physiology are not permitted to complete this Minor.

13.13.18.3 Bachelor of Science (B.Sc.) - Minor Interdisciplinary Life Sciences (24 credits)

The Interdisciplinary Life Sciences Minor will allow students from the earth, physical, math, and computational science areas to broaden their studies with some basic life sciences, health social science, and empirical technological science. The Minor is 24 credits and allows students flexibility in their course selections. Students must take 9 credits from an extensive list of basic life science courses, 3 credits from an extensive list of health and social science courses, and 3 credits from an empirical and technological science list. The remaining 9 credits may be taken from courses listed in any of the three categories.

This Minor is not open to students taking a major, honours, or core science component in the following units: Anatomy and Cell Biology, Biochemistry, Microbiology and Immunology, and Physiology.

Interested students should contact the Interdisciplinary Programs Adviser.

Complementary Courses (24 credits)

The 24 credits required for this program must satisfy the following criteria:

At least 18 credits must be new credits that are not used to satisfy any other program.

At least 18 credits must be outside the student's main discipline.

Depth requirement:

at least 6 credits must be at the 300 level or above.

Breadth requirement:

at least 9 credits must be taken from the Basic Life Sciences List,

at least 3 credits from the Health Social Sciences List,

at least 3 credits from the Empirical Science and Technology List.

The remaining 9 credits may be selected from any of the lists.

Basic Life Sciences

At least 9 credits from:

* Students take either ANAT 212 or BIOC 212, but not both.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Basis of Embryology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
CHEM 504	(3)	Drug Design and Development 2
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses & Hormones

PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

Health Social Science

At least 3 credits from:

ANTH 204	(3)	Anthropology of Meaning
ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ECON 440	(3)	Health Economics
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
HIST 249	(3)	Health and the Healer in Western History
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 381	(3)	Colonial Africa: Health/Disease
HIST 396	(3)	Disease in Africa Since 1960
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 447	(3)	The Natural History of America
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
PHIL 237	(3)	Contemporary Moral Issues
PHIL 343	(3)	Biomedical Ethics
POLI 417	(3)	Health Care in Canada
PSYC 215	(3)	Social Psychology
PSYC 304	(3)	Child Development
PSYC 333	(3)	Personality and Social Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 413	(3)	Cognitive Development
PSYC 414	(3)	Social Development
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 515	(3)	Medicine and Society

SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

Empirical Science and Technology

At least 3 credits from:

* Students who have already received credit for MATH 324 will NOT receive credit for GEOG 202, MATH 203, PSYC 204, BIOL 373, MATH 204, or PSYC 305.

Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
COMP 364	(3)	Computer Tools for Life Sciences
COMP 462	(3)	Computational Biology Methods
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 305	(3)	Statistics for Experimental Design

13.13.19 Kinesiology for Science Students

13.13.19.1 Location

Department of Kinesiology and Physical Education
Currie Gymnasium
475 Pine Avenue West
Montreal, Quebec H2W 1S4

Telephone: 514-398-4184

Fax: 514-398-4186

Email: kin.physed@mcgill.ca

Website: www.mcgill.ca/edu-kpe

13.13.19.2 About Kinesiology for Science Students

Students planning a career in the health sciences, whether as a health professional or a biomedical researcher, will find courses in Kinesiology to be of interest from both theoretical and applied perspectives. There is a focus on the benefits of physical activity for health and well-being, as well as appropriate prescription of exercise in the treatment of various diseases, injuries, and disabilities. Courses deal with both prevention and rehabilitation.

13.13.19.3 Bachelor of Science (B.Sc.) - Minor Kinesiology (24 credits)

The Minor Kinesiology is designed to provide students in B.Sc. programs with basic but comprehensive knowledge of scientific bases of human physical activity and its relationship with health and well-being.

Students registered in the Minor Kinesiology may not take additional courses outside the Faculties of Arts and of Science.

Required Courses (15 credits)

EDKP 206	(3)	Biomechanics of Human Movement
EDKP 261	(3)	Motor Development

EDKP 395	(3)	Exercise Physiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (9 credits)

9 credits, three of the following courses:

EDKP 330	(3)	Physical Activity and Health
EDKP 394	(3)	Historical Perspectives
EDKP 396	(3)	Adapted Physical Activity
EDKP 405	(3)	Sport in Society
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Exercise Pathophysiology 2
EDKP 485	(3)	Exercise Pathophysiology 1
EDKP 495	(3)	Scientific Principles of Training
EDKP 498	(3)	Sport Psychology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 566	(3)	Advanced Biomechanics Theory

13.13.20 Management for Science Students

The Desautels Faculty of Management offers four minor programs for non-Management students open for application to students in the Faculty of Science. Please refer to *Programs, Courses and University Regulations > Faculties & Schools > Desautels Faculty of Management* for detailed information about program requirements and applying.

Also available to Science students is the Minor in Technological Entrepreneurship for Science students; see [section 13.13.35: Technological Entrepreneurship for Science Students](#). (Please note that this Minor is currently under revision.)

13.13.20.1 Minor Finance (For Non-Management Students) (18 credits)

The Minor Finance consists of 18 credits of Management courses and is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

The Minor has been designed to provide students with an understanding of the key concepts in corporate finance as well as investment banking.

Required Courses (9 credits)

FINE 342	(3)	Finance 2
FINE 441	(3)	Investment Management
MGCR 341*	(3)	Finance 1

Complementary Courses (9 credits)

9 credits selected from:

FINE 442	(3)	Capital Markets and Institutions
FINE 443	(3)	Applied Corporate Finance
FINE 445	(3)	Real Estate Finance
FINE 448	(3)	Financial Derivatives

FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

or other appropriate 300- or 400-level FINE courses with the approval of the Program Adviser.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

13.13.20.2 Minor Management (For Non-Management Students) (18 credits)

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Finance 1

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Marketing Management 1
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

13.13.20.3 Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Marketing Management 1
MRKT 354	(3)	Marketing Management 2
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising Management
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

13.13.20.4 Minor Operations Management (For Non-Management Students) (18 credits)

Mentors: Please consult the Bachelor of Commerce website at: <http://www.mcgill.ca/desautels/programs/bcom/academics/courseinfo>

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and Agricultural & Environmental Sciences.

It provides non-Management students with the opportunity to pursue a career that involves decision making at the operational level. Graduates will be able to find employment in consulting, manufacturing, supply chain, distribution, retail operations, healthcare management and environmental management for profit and non-profit corporations. This Minor has been designed to provide students with an understanding of the key concepts in operations management theory and practice.

Required Courses (6 credits)

MGCR 472	(3)	Operations Management
MGSC 373	(3)	Operations Research 1

Complementary Courses (12 credits)

3 credits selected from:

MGCR 271*	(3)	Business Statistics

9 credits selected from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 431	(3)	Operations Analysis
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

or other appropriate 300- or 400-level MGSC courses with the approval of the Program Adviser.

* 3 credits of Statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

13.13.21 Mathematics and Statistics (MATH)**13.13.21.1 Location**

Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal, Quebec H3A 0B9

Telephone: 514-398-3800
Fax: 514-398-3899
Website: www.math.mcgill.ca

13.13.21.2 About Mathematics and Statistics

Mathematics has evolved to a discipline that is mainly characterized by its method of proof, its concern for a progressive broadening of its concepts, and by the search for mathematical entities and operations that represent aspects of reality. It is a subject that is pursued by many for its own sake, and regarded as part of the mainstream of human culture. Mathematics pervades modern society with an impact which, already immense, is rapidly growing.

The two principal divisions of mathematics are pure mathematics and applied mathematics. The pure mathematician is interested in abstract mathematical structures and in mathematics as an intellectual enterprise. The primary concern may not be with its utilitarian aspects or with the current needs of science and technology, although many problems in pure mathematics have developed from the sciences.

The applied mathematician is more interested in how mathematics can be used to study some aspects of the world. Mathematicians are engaged in the creation, study, and application of advanced mathematical methods relevant to scientific problems. Statistical science and methodology today is concerned with phenomena in which there is a background of uncertainty arising from inherent variability and the investigator is obliged to arrive at decisions from limited data. A key tool in statistics is probability.

Some of the fields in which pure mathematicians work are algebra, analysis, geometry, topology, number theory, and foundations. Applied mathematics, which once referred to the application of mathematics to such disciplines as mechanics and fluid dynamics, has currently assumed a much broader meaning and embraces such diverse fields as communication theory, theory of optimization, theory of games, and numerical analysis.

Mathematics offers many vocational possibilities. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for B.Sc. graduates. Opportunities to do original research in pure and applied mathematics are available in universities and research institutions. Employment is to be found in financially or technologically oriented business firms. The Department of Mathematics and Statistics through its various programs attempts to provide courses to suit the diverse interests within mathematics and statistics.

The Honours program demands of the student a talent for abstraction in addition to a high level of competence in the use of mathematical tools. This program is intended for students who plan to work in an area where mathematical innovations may be needed. It is almost essential for students contemplating a career in mathematical research.

The Major program involves the same subjects as the Honours program, but is less demanding in terms of abstraction. It is designed primarily for students who will need mathematical tools in their work but whose creative activity will involve applications of mathematics to other areas. Within the framework of the Mathematics Major, various combinations of courses are suggested to meet the needs of different students. These include course suggestions for secondary school teachers, careers in management, and for careers in industry, government, or actuarial sciences.

It is possible for Major students to include a number of Honours courses in their programs. This will be an advantage for those students who plan to use their mathematics in graduate studies.

Students interested in a Mathematics program linked to other disciplines are advised to consider the B.Sc. Liberal program with a core component in Mathematics or Statistics, or our joint programs with Computer Science, Physiology, and Physics.

In planning their programs, students are advised to seriously consider developing some depth in another discipline—preferably one for which mathematics has some relevance and use. Mathematics has been closely linked to areas such as computer science, physics, and engineering, but has recently come to play an increasingly important role in fields such as biology, linguistics, management, and psychology. Students should consider completing the requirements for minor programs such as those available in Cognitive Science, Computer Science, and Statistics.

Students considering programs in Mathematics and Statistics should contact the Department to arrange for academic advising.

The student's attention is called to the fact that a B.Com. degree with a Major in Mathematics is available from the Desautels Faculty of Management. In addition, the Schulich School of Music offers the B.Mus. degree with Honours in Theory with Mathematics option.

13.13.21.3 Internship Opportunities

Students who want to get practical experience in industry before graduation are encouraged to participate in one of the following internship programs:

- The Internship Year in Science (IYS) is an academic program offered for a duration of 8, 12, or 16 months. It is reflected on the transcript and included in the program name (Bachelor of Science – Internship program). Eligible students usually take this program between their U2 and U3 years.
- The Industrial Practicum (IP) has a duration of four months and is usually carried out starting in May. It will appear as a 0-credit, Pass/Fail course on your transcript.

For more information on these programs, consult [section 13.12.1: Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#).



Note: Students entering a program listed below that has MATH 222 (Calculus 3) as a required course and who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222 (Calculus 3) from the program, but must replace it with 3 credits of elective courses.

13.13.21.4 Mathematics and Statistics (MATH) Faculty

Chair

Jacques Hurtubise

Emeritus Professors

Michael Barr; A.B., Ph.D.(Penn.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)

William G. Brown; M.A.(Col.), B.A., Ph.D.(Tor.)

Marta Bunge; M.A., Ph.D.(Penn.)

Ian Connell; B.Sc., M.Sc.(Manit.), Ph.D.(McG.)

Kohur GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)

Paul Koosis; B.A., Ph.D.(Calif., Berk.)

Joachim Lambek; M.Sc., Ph.D.(McG.), F.R.S.C. (*Peter Redpath Emeritus Professor of Pure Mathematics*)

Michael Makkai; M.A., Ph.D.(Bud.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)

Sherwin A. Maslowe; B.Sc.(Wayne State), M.Sc., Ph.D.(Calif.)

Arak M. Mathai; M.Sc.(Kerala), M.A., Ph.D.(Tor.)

Karl Peter Russell; Vor.Dip.(Hamburg), Ph.D.(Calif.)

Georg Schmidt; B.Sc.(Natal), M.Sc.(S. Af.), Ph.D.(Stan.)

V. Seshadri; B.Sc., M.Sc.(Madr.), Ph.D.(Okla.)

George P.H. Stylian; M.A., Ph.D.(Col.)

Kwok Kuen Tam; M.A., Ph.D.(Tor.)

Emeritus Professors

John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)

Sanjo Zlobec; M.Sc.(Zagreb), Ph.D.(N'western)

Professors

William J. Anderson; B.Eng., Ph.D.(McG.)

Rustum Choksi; B.Sc.(Tor.), M.Sc., Ph.D.(Brown)

Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. (*James McGill Professor*)

Stephen W. Drury; M.A., Ph.D.(Cant.)

Christian Genest; B.Sp.Sc.(UQAC), M.Sc.(UQAM), Ph.D.(Br. Col) (*Canada Research Chair*)

Eyal Z. Goren; B.A., M.S., Ph.D.(Hebrew)

Pengfei Guan; B.Sc.(Zhejiang), M.Sc., Ph.D.(Princ.) (*Canada Research Chair*)

Jacques C. Hurtubise; B.Sc.(Montr.), Ph.D.(Oxf.), F.R.S.C.

Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (*William Dawson Scholar*)

Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Calif. Tech.)

Niky Kamran; B.Sc., M.Sc.(Brussels), Ph.D.(Wat.), F.R.S.C. (*James McGill Professor*)

Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)

F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.) (*James McGill Professor*)

David A. Stephens; B.Sc., Ph.D.(Nott.) (*James McGill Professor*)

John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT)

Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.)

David Wolfson; M.Sc.(Natal), Ph.D.(Purd.)

JianJu Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Renss.)

Associate Professors

Masoud Asgharian; B.Sc.(Shahid Beheshti), M.Sc., Ph.D.(McG.)

Peter Bartello; B.Sc.(Tor.), M.Sc., Ph.D.(McG.) (*joint appt. with Atmospheric and Oceanic Sciences*)

Antony Humphries; B.A., M.A.(Camb.), Ph.D.(Bath)

Wilbur Jonsson; M.Sc.(Manit.), Dr.Rer.Nat.(Tübingen)

Ivo Klemes; B.Sc.(Tor.), Ph.D.(Calif. Tech.)

James G. Loveys; B.A.(St. Mary's), M.Sc., Ph.D.(S. Fraser)

Johanna Neslehova; Vor.Dip.(Prague), Dip.(Hamburg), Ph.D.(Oldenburg)

Adam Oberman; B.S.(Tor.), M.S., Ph.D.(Chic.)

Neville G.F. Sancho; B.Sc., Ph.D.(Belf.)

Robert Seiringer; M.Sc., Ph.D.(Vienna) (*William Dawson Scholar*)

Russell Steele; B.S., M.S.(Carn. Mell), Ph.D.(Wash.)

Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT) (*joint appt. with Computer Science*)

Assistant Professors

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)

Abbas Khalili; B.S., M.S.(Esfahan), Ph.D.(Wat.)

Jean-Christophe Nave; M.Sc., Ph.D.(Calif., Santa Barbara)

Sergey Norin; M.S.(St.-Petersburg), Ph.D.(Georgia Tech.)

Mikael Pichot; B.Sc.(Lyon), M.S., Ph.D.(École Normale-Lyon)

Gantumur Tsogtgerel; B.Sc.(Mongolia), M.Sc.(Netherlands), Ph.D.(Utrecht)

Assistant Professors

Johannes Walcher; Dip., Ph.D.(ETH) (*joint appt. with Physics*) (*Canada Research Chair*)

Associate Members

Xiao-Wen Chang (*Computer Science*)

Luc P. Devroye (*Computer Science*)

P.R.L. Dutilleul (*Plant Science*)

Eliot Fried (*Mechanical Engineering*)

Leon Glass (*Physiology*)

George Haller (*Mechanical Engineering*)

James A. Hanley (*Epidemiology & Biostatistics*)

Hamed Hatami (*Computer Science*)

Lawrence Joseph (*Epidemiology & Biostatistics*)

Anmar Khadra (*Physiology*)

Michael Mackey (*Physiology*)

Erica E.M. Moodie (*Epidemiology & Biostatistics*)

Lawrence A. Mysak (*Atmospheric & Oceanic Sciences*)

Christopher Conway Paige (*Computer Science*)

Prakash Panangaden (*Computer Science*)

Robert W. Platt (*Pediatrics*)

James O. Ramsay (*Psychology*)

George Alexander Whitmore (*Management*)

Christina Wolfson (*Epidemiology & Biostatistics*)

Adjunct Professors

Vasek Chvatal; M.A.(Charles U., Prague), Ph.D.(Wat.)

Martin J. Gander; M.S.(ETH), M.S., Ph.D.(Stan.)

Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)

Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)

Olga Kharlampovich; M.A.(Ural State), Ph.D.(Leningrad), Dr.Sc.(Steklov Institute)

Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Univ.), Ph.D.(Kanazawa)

Alexei Miasnikov; M.Sc.(Novosibirsk), Ph.D., Dr.Sc.(Leningrad)

M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.

Vladimir Remeslennikov; M.Sc.(Perm, Russia), Ph.D.(Novosibirsk)

Robert A. Seely; B.Sc.(McG.), Ph.D.(Cant.)

Alain C. Vandal; B.Sc., M.Sc.(McG.), Ph.D.(Auck.)

Thomas Wihler; M.S., Ph.D.(ETH)

Faculty Lecturers

Jose A. Correa; M.Sc.(Wat.), Ph.D.(Car.)

Axel Hundemer; M.Sc., Ph.D.(Munich)

Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)

13.13.21.5 Bachelor of Science (B.Sc.) - Minor Mathematics (24 credits)

The Minor may be taken in conjunction with any primary program in the Faculty of Science (other than programs in Mathematics). Students should declare their intention to follow the Minor Mathematics at the beginning of the penultimate year and should obtain approval for the selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

It is strongly recommended that students in the Minor program take MATH 323. The remaining credits may be freely chosen from the required and complementary courses for majors and honours students in Mathematics, with the obvious exception of courses that involve duplication of material. Alternatively, up to 6 credits may be allowed for appropriate courses from other departments.

Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program. However, with an approved choice of substantial courses, the overlap restriction may be relaxed to 9 credits for students whose primary program requires 60 credits or more, and to 12 credits when the primary program requires 72 credits or more.

Required Courses (9 credits)

* MATH 223 may be replaced by MATH 235 and MATH 236. In this case, the complementary credit requirement is reduced by 3 credits.

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (15 credits)

15 credits selected from the required and complementary courses for majors and honours students in Mathematics, with MATH 323 strongly recommended; alternatively, up to 6 credits may be allowed for appropriate courses from other departments.

13.13.21.6 Bachelor of Science (B.Sc.) - Minor Statistics (24 credits)

The Minor may be taken in conjunction with any primary program in the Faculty of Science. Students should declare their intention to follow the Minor Statistics at the beginning of the penultimate year and must obtain approval for the selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

All courses counted towards the Minor must be passed with a grade of C or better. Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program. However, with an approved choice of substantial courses, the overlap restriction may be relaxed to 9 credits for students whose primary program requires 60 credits or more, and to 12 credits when the primary program requires 72 credits or more.

Required Courses (15 credits)

* MATH 223 may be replaced by MATH 235 and MATH 236. In this case the complementary credit requirement is reduced by 3 credits.

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

Complementary Courses (9 credits)

9 credits selected from:

CHEM 593	(3)	Statistical Mechanics
GEOG 351	(3)	Quantitative Methods
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2

PHYS 362	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics
SOCI 504	(3)	Quantitative Methods 1
SOCI 505	(3)	Quantitative Methods 2

No more than 6 credits may be taken outside the Department of Mathematics and Statistics.

Further credits (if needed) may be freely chosen from the required and complementary courses for majors and honours students in Mathematics, with the obvious exception of courses that involve duplication of material.

13.13.21.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Mathematics (45 credits)

Program Prerequisites

Students entering the Core Science Component in Mathematics are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Selection of Courses

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following: MATH 317, MATH 318, MATH 327, MATH 328, MATH 335, MATH 340, MATH 407, MATH 417 and to complete the Computer Science Minor.

Students interested in probability and statistics are advised to take MATH 204, MATH 324, MATH 407, MATH 423, MATH 447, MATH 523, MATH 525.

Students interested in applied mathematics should take MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407, MATH 417.

Students considering a career in secondary school teaching are advised to take MATH 318, MATH 328, MATH 338, MATH 339, MATH 346, MATH 348.

Students interested in careers in business, industry or government are advised to select courses from the following list:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 407, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of elective courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses (18 credits)

18 credits selected from the following list, with at least 6 credits selected from:

MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Structures 2

the remainder of the 18 credits to be selected from:

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis

13.13.21.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Statistics (45 credits)

Program Prerequisites

Students entering the Core Science Component in Statistics are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (27 credits)

* Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of elective courses.

MATH 222*	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2

MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

Complementary Courses (18 credits)

18 credits selected from the following list, with at least 6 credits selected from:

* Students may take either MATH 316 or MATH 249, but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Structures 2
MATH 427	(3)	Statistical Quality Control

at least 7 credits selected from:

MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications

the remainder of the 18 credits to be selected from:

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 430	(3)	Mathematical Finance

13.13.21.9 Bachelor of Science (B.Sc.) - Major Mathematics (54 credits)**Program Prerequisites**

Students entering the Major program are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 54 credits of required courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Selection of Courses in the Major Program

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following: MATH 317, MATH 318, MATH 327, MATH 328, MATH 335, MATH 340, MATH 407, MATH 417 and to complete the Computer Science Minor.

Students interested in probability and statistics are advised to take MATH 204, MATH 324, MATH 407, MATH 423, MATH 447, MATH 523, MATH 525.

Students interested in applied mathematics should take MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407, MATH 417.

Students considering a career in secondary school teaching are advised to take MATH 318, MATH 328, MATH 338, MATH 339, MATH 346, MATH 348.

Students interested in careers in business, industry or government are advised to select courses from the following list:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 407, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

Note: Students who have done well in MATH 235 and MATH 242 should consider entering the Honours stream by registering in MATH 251 and MATH 255 instead of MATH 236 and MATH 243.

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of elective courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses (27 credits)

27 credits selected as follows:

21 credits selected from the following list, with at least 6 credits selected from:

MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Structures 2
MATH 427	(3)	Statistical Quality Control

the remainder of the 21 credits to be selected from:

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Topics in Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis

6 additional credits in Mathematics or related disciplines selected in consultation with the Adviser.

13132110 Bachelor of Science (B.Sc.) - Major Mathematics and Computer Science (72 credits)

Program Prerequisites

Students entering the Joint Major in Mathematics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 72 credits of courses in the program specification.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (54 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 310	(3)	Operating Systems

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design
MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 315	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 340	(3)	Discrete Structures 2

Complementary Courses (18 credits)

9 credits from the set of courses recommended for a major or honours program in Mathematics.

9 credits selected from Computer Science courses at the 300 level or above (except COMP 364, COMP 396, COMP 400, COMP 431) and ECSE 508.

13132111 Bachelor of Science (B.Sc.) - Major Statistics and Computer Science (72 credits)

This program provides students with a solid training in both computer science and statistics together with the necessary mathematical background. As statistical endeavours involve ever increasing amounts of data, some students may want training in both disciplines.

Program Prerequisites

Students entering the Joint Major in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 72 credits of required courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (51 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

** Students take either COMP 350 or MATH 317, but not both.

*** Students take either MATH 223 or MATH 236, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 350**	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design
MATH 222	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 235	(3)	Algebra 1
MATH 236***	(3)	Algebra 2

MATH 242	(3)	Analysis 1
MATH 314	(3)	Advanced Calculus
MATH 317**	(3)	Numerical Analysis
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

Complementary Courses (21 credits)

12 credits in Mathematics selected from:

* Students take either MATH 340 or MATH 350, but not both.

** MATH 578 and COMP 540 cannot both be taken for program credit.

MATH 327	(3)	Matrix Numerical Analysis
MATH 340*	(3)	Discrete Structures 2
MATH 350*	(3)	Graph Theory and Combinatorics
MATH 352	(1)	Problem Seminar
MATH 410	(3)	Majors Project
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 578**	(4)	Numerical Analysis 1

9 credits in Computer Science selected as follows:

At least 6 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 540**	(3)	Matrix Computations
COMP 547	(4)	Cryptography and Data Security
COMP 564	(3)	Computational Gene Regulation
COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2

The remaining Computer Science credits are selected from COMP courses at the 300 level or above (except COMP 396, COMP 400, and COMP 431) and ECSE 508.

1313212 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (60 credits)

Applied Mathematics is a very broad field and students are encouraged to choose a coherent program of complementary courses. Most students specialize in "continuous" or "discrete" applied mathematics, but there are many sensible combinations of courses, and the following informal guidelines should be discussed with the student's adviser. Also, aside from seeking to develop a sound basis in Applied Mathematics, one of the objectives of the program is to kindle the students' interest in possible areas of application. To develop an appreciation of the diversity of Applied Mathematics, students are advised to

develop some depth (e.g., by completing a minor) in a field related to Applied Mathematics such as Atmospheric and Oceanic Sciences, Biology, Biochemistry, Chemistry, Computer Science, Earth and Planetary Sciences, Economics, Engineering, Management, Physics, Physiology, and Psychology.

Required Courses (42 credits)

* COMP 250 may be preceded by COMP 202.

COMP 250*	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Graph Theory and Combinatorics
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 375	(3)	Honours Partial Differential Equations
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 470	(3)	Honours Research Project

Complementary Courses (18 credits)

Advising Notes:

Students interested in continuous applied mathematics are urged to choose these as part of their Complementary Courses: MATH 354 and MATH 355, and are advised to choose additional courses from MATH 387, MATH 397, MATH 555, MATH 560, MATH 574, MATH 578, MATH 579, MATH 580, MATH 581.

Students interested in discrete applied mathematics are advised to choose from these as part of their Complementary Courses: COMP 362, COMP 490, MATH 370, MATH 371, MATH 407, MATH 547, MATH 487, MATH 550, MATH 552, MATH 560.

3 credits selected from:

MATH 249	(3)	Honours Complex Variables
MATH 366	(3)	Honours Complex Analysis

at least 3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

and the remainder of credits selected from:

COMP 362	(3)	Honours Algorithm Design
MATH 352	(1)	Problem Seminar
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 377	(3)	Honours Number Theory

MATH 380	(3)	Honours Differential Geometry
MATH 480	(3)	Honours Independent Study
MATH 487	(3)	Honours Mathematical Programming
MATH 488	(3)	Honours Set Theory
MATH 490	(3)	Honours Mathematics of Finance

All MATH 500-level courses.

No more than 6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 348	(3)	Topics in Geometry
MATH 407	(3)	Dynamic Programming

Other courses with the permission of the Department.

13132113 Bachelor of Science (B.Sc.) - Honours Mathematics (60 credits)

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents. In addition, a student who has not completed the equivalent of MATH 222 must take it in the first term without receiving credits toward the credits required in the Honours program.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To remain in an Honours program and to be awarded the Honours degree, the student must maintain a 3.00 GPA in the required and complementary Mathematics courses of the program, as well as an overall CGPA of 3.00.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (48 credits)

* MATH 314 may be substituted for MATH 248 if MATH 222 had to be taken in the Fall.

MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248*	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 366	(3)	Honours Complex Analysis
MATH 370	(3)	Honours Algebra 3

MATH 371	(3)	Honours Algebra 4
MATH 375	(3)	Honours Partial Differential Equations
MATH 380	(3)	Honours Differential Geometry
MATH 470	(3)	Honours Research Project

Complementary Courses (12 credits)

12 credits selected from:

MATH 350	(3)	Graph Theory and Combinatorics
MATH 352	(1)	Problem Seminar
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 480	(3)	Honours Independent Study
MATH 487	(3)	Honours Mathematical Programming
MATH 488	(3)	Honours Set Theory

all MATH 500-level courses.

Honours-level courses from related disciplines:

* COMP 250 may be preceded by COMP 202.

COMP 250*	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures

no more than 6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 348	(3)	Topics in Geometry
MATH 407	(3)	Dynamic Programming

Students may select other courses with the permission of the Department.

13132114 Bachelor of Science (B.Sc.) - Honours Mathematics and Computer Science (75 credits)

Students may complete this program with a minimum of 72 credits or a maximum of 75 credits depending on whether or not they are exempt from taking COMP 202.

Program Prerequisites

Students must consult an Honours adviser in both departments. Students entering the Joint Honours in Mathematics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 72-75 credits of courses in the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (45 credits)

* Students who have sufficient knowledge in a programming language are not required to take COMP 202.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design
MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 350	(3)	Graph Theory and Combinatorics

Complementary Courses (30 credits)

18 credits in Mathematics, at least 12 credits selected from:

* Students with appropriate background in probability may substitute MATH 587 for MATH 356 and must then also register for MATH 355.

MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356*	(3)	Honours Probability
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 387	(3)	Honours Numerical Analysis

The remaining credits should be selected from honours courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 364, COMP 396 and COMP 431. ECSE 508 may also be taken.

13132115 Bachelor of Science (B.Sc.) - Honours Probability and Statistics (64 credits)

Required Courses (46 credits)

* COMP 250 may be preceded by COMP 202.

** Students select either MATH 251 or MATH 247, but not both.

COMP 250*	(3)	Introduction to Computer Science
MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Advanced Calculus
MATH 251**	(3)	Honours Algebra 2

MATH 255	(3)	Honours Analysis 2
MATH 354	(3)	Honours Analysis 3
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 470	(3)	Honours Research Project
MATH 523	(4)	Generalized Linear Models
MATH 533	(4)	Honours Regression and Analysis of Variance
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2

Complementary Courses (18 credits)

At least 3 credits from:

MATH 355	(3)	Honours Analysis 4
MATH 587	(4)	Advanced Probability Theory 1
MATH 598	(4)	Topics in Probability & Statistics

The remaining credits selected from:

MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Graph Theory and Combinatorics
MATH 352	(1)	Problem Seminar
MATH 366	(3)	Honours Complex Analysis
MATH 375	(3)	Honours Partial Differential Equations
MATH 380	(3)	Honours Differential Geometry
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 480	(3)	Honours Independent Study
MATH 490	(3)	Honours Mathematics of Finance
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 547	(4)	Stochastic Processes
MATH 550	(4)	Combinatorics
MATH 589	(4)	Advanced Probability Theory 2

With at most 3 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 407	(3)	Dynamic Programming
MATH 427	(3)	Statistical Quality Control

13132116 Bachelor of Science (B.Sc.) - Honours Statistics and Computer Science (79 credits)

This is a challenging program providing students with a solid training in both computer science and statistics suitable for entry into graduate school in either discipline.

Students may complete this program with a minimum of 76 credits or a maximum of 79 credits depending on whether or not they are exempt from taking COMP 202.

Program Prerequisites

Students entering the Joint Honours in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 76-79 credits of courses in the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (49 credits)

* Students who have sufficient knowledge in a programming language are not required to take COMP 202.

** Students take either MATH 251 or MATH 247, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design
MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Advanced Calculus
MATH 251**	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 533	(4)	Honours Regression and Analysis of Variance

Complementary Courses (30 credits)

15 credits in Mathematics selected as follows:

3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

At least 8 credits selected from:

MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2

The remaining Mathematics credits selected from:

** MATH 578 and COMP 540 cannot both be taken for program credit.

MATH 350	(3)	Graph Theory and Combinatorics
MATH 352	(1)	Problem Seminar
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 545	(4)	Introduction to Time Series Analysis
MATH 578**	(4)	Numerical Analysis 1

15 credits in Computer Science selected as follows:

At least 6 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 540**	(3)	Matrix Computations
COMP 547	(4)	Cryptography and Data Security
COMP 552	(4)	Combinatorial Optimization
COMP 564	(3)	Computational Gene Regulation
COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2

The remaining Computer Science credits are selected from COMP courses at the 300 level or above excluding COMP 396 and COMP 431.

13.13.21.17 Mathematics and Statistics (MATH) Related Programs

13.13.21.17.1 Joint Major in Biology and Mathematics

For more information, see [section 13.13.5: Biology \(BIOL\)](#) > [section 13.13.5.10: Bachelor of Science \(B.Sc.\) - Major Biology and Mathematics \(76 credits\)](#).

13.13.21.17.2 Joint Major in Physiology and Mathematics

For more information, see [section 13.13.30: Physiology \(PHGY\)](#) > [section 13.13.30.6: Bachelor of Science \(B.Sc.\) - Major Physiology and Mathematics \(77 credits\)](#).

13.13.21.17.3 Joint Honours Program in Mathematics and Physics

For more information, see [section 13.13.29: Physics \(PHYS\)](#) > [section 13.13.29.13: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Physics \(81 credits\)](#).

13.13.22 Microbiology and Immunology (MIMM)

13.13.22.1 Location

Lyman Duff Medical Sciences Building, Room 511
3775 University Street
Montreal, Quebec H3A 2B4

Telephone: 514-398-3915
Fax: 514-398-7052
Email: office.microimm@mcgill.ca
Website: www.mcgill.ca/microimm

13.13.22.2 About Microbiology and Immunology

Microbiology is the study of microorganisms such as bacteria, viruses, unicellular eukaryotes, and parasites. Microorganisms play an important role in human and animal disease, food production (bread, cheese, wine), decay and spoilage, contamination and purification of water and soil. Microbiologists study these tiny, self-replicating machines to understand the basic principles of life: growth, metabolism, cell division, control of gene expression, response to environmental stimuli. Microbiologists are also concerned with controlling or harnessing microorganisms for the benefit of people, by isolating antibiotics or producing vaccines to protect against disease, and by developing and perfecting microorganisms for industrial uses.

Immunology is the study of the molecular and cellular basis of host resistance and immunity to external agents such as pathogenic microorganisms. Immunologists study the mechanisms by which the body recognizes foreign antigens, generates appropriate antibodies to an enormously diverse spectrum of antigens, and sequesters and kills invading microorganisms. Their discoveries lead to vaccination against disease, transfusions and organ transplants, allergies, cancer, autoimmune diseases and immune-deficiency diseases such as AIDS. Antibodies may soon be used in conjunction with antibiotics or chemical agents as specific “magic bullets” to diagnose disease and attack microbes and cancers.

The disciplines of microbiology and immunology are natural partners in research, and both fields use the modern methods of cell biology, molecular biology, and genetics to study basic life processes. The members of the Department of Microbiology and Immunology perform research on microbial physiology and genetics, microbial pathogenesis, molecular virology, cellular and molecular immunology, and parasitology. Students registered in the Department therefore are exposed to these related areas and receive an excellent background in basic biology and chemistry as well as in the more applied areas of biotechnology and medicine.

Many opportunities exist for careers in basic or applied microbiology and immunology, medical microbiology, environmental microbiology, and biotechnology. They include positions in industry (pharmaceutical and biotechnology), hospitals, universities, and government (environment, public health, and energy). A degree in microbiology also provides an excellent basis for entering professional and postgraduate programs in medicine, dentistry, the veterinary sciences, research, and education.

**Notes on admission to Microbiology and Immunology programs:**

Please note that enrolment in Microbiology and Immunology programs is limited to a total of 120 students per year. Students seeking admission to the Liberal, Majors, and Honours programs must have completed BIOL 112, CHEM 110, CHEM 120, MATH 139 or MATH 140, MATH 141, PHYS 101, and PHYS 102 or their equivalent with an overall average of at least B+ (75%).

Students transferring from other programs may be admitted with a B+ average up to the maximum program capacity of 120 students. Applicants not admitted will be placed on a waiting list and will be considered should vacancies occur. Application deadline for UO or transfer students from other departments and faculties is the third Monday in April. Students who want to transfer to Microbiology and Immunology should consider taking MIMM 211, or equivalent, as a complementary course.

An undergraduate handbook, containing detailed course descriptions, a listing of faculty research interests, and information on careers in microbiology and immunology, is available from the Student Affairs Office in Room 511 of the Lyman Duff Building and at www.mcgill.ca/microimm.

All students (U1, U2, U3) must attend an advising session. Please check www.mcgill.ca/microimm for dates.

13.13.22.3 Microbiology and Immunology (MIMM) Faculty**Chair**

Dr. Joaquin Madrenas

Professors

James W. Coulton; B.Sc.(Tor.), M.Sc.(Calg.), Ph.D.(W. Ont.)

Albert Berghuis; M.Sc.(The Netherlands), Ph.D.(Br. Col.)

Matthias Götze; Ph.D.(Max Planck)

Joaquin Madrenas; M.Sc., Ph.D.(Alta.), M.D.(Barcelona)

Greg Matlashewski; B.Sc.(C'dia), Ph.D.(Ott.)

Robert A. Murgita; B.Sc.(Maine), M.S.(Vermont), Ph.D.(McG.)

Martin Olivier; B.Sc.(Montr.), Ph.D.(McG.)

Mark A. Wainberg; B.Sc.(McG.), M.Sc., Ph.D.(Col.)

Associate Professors

Dalius J. Briedis; B.A., M.D.(Johns Hop.)

Benoit Cousineau; B.Sc., M.Sc., Ph.D.(Montr.)

Sylvie Fournier; Ph.D.(Montr.)

Samantha Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)

Hervé Le Moual; Ph.D.(Montr.)

Associate Professors

Gregory T. Marczynski; B.Sc., Ph.D.(Ill.)

Ciriaco Piccirillo; B.Sc., Ph.D.(McG.)

Donald Sheppard; M.D.(Tor.)

Assistant Professors

Jorg Friz; Ph.D.(Vienna)

Irah King; B.Sc.(Ohio St.), M.Sc.(Pitt. St.), Ph.D.(Roch.)

Connie Krawczyk; B.Sc.(Guelph), Ph.D.(Tor.)

Associate Members

Biochemistry: Philip Gros, Michel Tremblay

Epidemiology and Infectious Diseases: Marcel Behr, Andre Dascal, Vivian Loo, Mark Miller, Michael Reed

Immunology, Autoimmunity, Host Defense: Jack Antel, Amit Bar-Or, Miguel Burnier, Nicholas V. Christou, Arnold Kristof, Marianna Newkirk, Joyce Rauch, Maya Saleh, Christos Tsoukas

Immunology and Parasitology: Paula Ribeiro, Petra Rohrbach, Brian Ward, Momar Ndao, Ji Zhang

Microbiology: Maziar Divangahi, Chen Liang, Jay Nadeau, Dao Nguyen

Molecular Biology: Nicolas Cermakian, Subah Hussain, Armando Jardim, Andrew Mouland, Kostas Pantopoulos, Bernard Turcotte

Virology: Anne Gatignol, Antonis Koromilas, Rongtuan Lin, Jose Teodoro

Adjunct Professors

Jacques Archambault; B.Sc.(Montr.), Ph.D.(Tor.)

Albert Descoteaux; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

Andres Finzi; B.Sc., M.Sc., Ph.D.(Montr.)

George Kukolj; B.Sc., Ph.D.(McG.)

Peter Lau; Ph.D.(Ott.)

Byong Lee; B.Sc.(Kangwon), M.Sc., Ph.D.(Laval)

Shan-Lu Liu; M.D.(China), Ph.D.(Wash.)

Andrew Makrigiannis; B.Sc., Ph.D.(Dal.)

Woong-Kyung Suh; B.Sc., M.Sc.(Seoul), Ph.D.(Tor.)

Dan Ziberstein; B.Sc., M.Sc., Ph.D.(Hebrew)

Affiliated Centre

Centre for Host Resistance
Montreal General Hospital
1650 Cedar Avenue
Montreal, Quebec H3G 1A4
Telephone: 514-398-8038

Director: E. Skamene

13.13.22.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Microbiology and Immunology (49 credits)**U1 Required Courses (18 credits)**

* Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology

BIOL 202	(3)	Basic Genetics

CHEM 212*	(4)	Introductory Organic Chemistry 1
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

U1 Complementary Course (3 credits)

3 credits, select one from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

U1, U2, or U3 Required Course (3 credits)

3 credits, select one from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

U2 Required Courses (15 credits)

MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 386D1	(3)	Laboratory in Microbiology and Immunology
MIMM 386D2	(3)	Laboratory in Microbiology and Immunology

U3 Complementary Courses (6 credits)

6 credits selected from:

MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes

U1, U2 or U3 Complementary Courses (3 credits)

3 credits selected from:

* Students who have taken CHEM 212 or CHEM 222 in CEGEP must replace it with another complementary course.

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function

BIOC 454	(3)	Nucleic Acids
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

13.13.22.5 Bachelor of Science (B.Sc.) - Major Microbiology and Immunology (68 credits)

The Major program is designed for students who want to acquire a substantial background in microbiology and immunology and related disciplines (chemistry, biology, biochemistry) which will prepare them for professional schools, graduate education, or entry into jobs in industry or research institutes.

U1 Required Courses (26 credits)

* Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).

** Students who have taken CHEM 222 in CEGEP are exempt and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222**	(4)	Introductory Organic Chemistry 2
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

One of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

U1, U2, or U3 Required Course (3 credits)

One of:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

U2 Required Courses (21 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 386D1	(3)	Laboratory in Microbiology and Immunology
MIMM 386D2	(3)	Laboratory in Microbiology and Immunology

U3 Required Courses (9 credits)

MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Complementary Courses (9 credits)

9 credits selected from:

* Students may select either ANAT 458 or BIOC 458, but not both.

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 302	(3)	Introductory Organic Chemistry 3
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

13.13.22.6 Bachelor of Science (B.Sc.) - Honours Microbiology and Immunology (74 credits)

The Honours program is designed to offer, in addition to the substantial background given by the Major program, a significant research experience in a laboratory within the Department during the U3 year. Students are prepared for this independent research project by following an advanced laboratory course in U2. This program is intended to prepare students for graduate study in microbiology and immunology or related fields, but could also be chosen by students intending to enter medical research after medical school, or intending to enter the job market in a laboratory research environment.

Students intending to apply to Honours must follow the Major program in U1 and U2 and must obtain a CGPA of at least 3.50 at the end of their U2 year. For graduation in Honours, students must pass all required courses with a C or better, and achieve a sessional GPA of at least 3.30 in the U3 year.

U1 Required Courses (25 credits)

* Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).

** Students who have taken CHEM 222 in CEGEP are exempt and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222**	(4)	Introductory Organic Chemistry 2
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

One of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

U1, U2, or U3 Required Course (3 credits)

One of:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

U2 Required Courses (21 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 386D1	(3)	Laboratory in Microbiology and Immunology
MIMM 386D2	(3)	Laboratory in Microbiology and Immunology

U3 Required Courses (21 credits)

MIMM 413	(3)	Parasitology

MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 502D1	(6)	Honours Research Project in Microbiology
MIMM 502D2	(6)	Honours Research Project in Microbiology

Complementary Course (3 credits)

3 credits selected from:

ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 404	(3)	Biophysical Chemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 520	(3)	Gene Activity in Development
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PSYT 455	(3)	Neurochemistry

13.13.22.7 Microbiology and Immunology (MIMM) Related Programs

13.13.22.7.1 Interdepartmental Honours in Immunology

For more information, see [section 13.13.17: Immunology](#).

This program is offered by the departments of Biochemistry, Microbiology and Immunology, and Physiology.

Students interested in immunology may choose between this Honours program and the Honours program of the Department of Microbiology and Immunology.

Details of this program may also be obtained from Professor Piccirillo in the Department of Microbiology and Immunology, Room L11.132, Montreal General Hospital; Telephone: 514-934-1934, ext. 45135; ciro.piccirillo@mcgill.ca.

13.13.23 Music

13.13.23.1 Location

Strathcona Music Building
555 Sherbrooke Street West
Montreal, Quebec H3A 1E3

Telephone: 514-398-4535
Fax: 514-398-8061
Website: www.mcgill.ca/music

13.13.23.2 About Music

For more information, see *Programs, Courses and University Regulations* > *Faculties & Schools* > [Schulich School of Music](#).

13.13.23.3 Music Faculty**Department of Music Research Chair**

Christoph Neidhöfer; Dipl.(Musikhochschule Basel), Ph.D.(Harv.)

Department of Performance Chair

Jean Lesage; Concours, Diplôme d'études supérieures(Cons. de Montréal)

Adviser (B.A./B.Sc. Music programs)

Sara Laimon; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook)
Telephone: 514-398-1882

Diana Toni Dutz; B.Mus.(W. Ont.), Grad.Dip.(C'dia)
Telephone: 514-398-6337

13.13.23.4 Music Related Programs**13.13.23.4.1 Minor in Musical Applications of Technology and Minor in Musical Science and Technology**

Science students may apply for admission to either the Minor in Musical Applications of Technology, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Schulich School of Music* > *Undergraduate* > *Programs of Study* > [section 11.8.1.10: Minor Musical Applications of Technology \(18 credits\)](#), or the Minor in Musical Science and Technology, see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Schulich School of Music* > *Undergraduate* > *Programs of Study* > [section 11.8.1.11: Minor Musical Science and Technology \(18 credits\)](#). Enrolment in Music Technology programs is highly restricted. Application forms will be available from the Department of Music Research in the Schulich School of Music from February 1 and must be completed and returned to that office by May 15 of each academic year. Late applications will not be accepted and no students will be admitted in January. Successful applicants will be notified by June 1. Registration will be limited to available lab space.

~~13.13.23.4.1~~ Science Minor in Music Technology (24 credits)

This program was retired as of the 2008–2009 academic year. Students currently registered in the program should consult with their program adviser and refer to the Calendar for the academic year in which they began the program for guidance about program requirements. Science students are eligible to take the Arts Minor Concentration in Music; see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Arts* > *Undergraduate* > *Academic Programs* > [section 3.10.37: Music \(MUAR\)](#). Music courses listed as MUAR (see Faculty of Arts courses) are considered to be Arts courses. All other Music courses are considered by the Faculty of Science to be courses outside of Arts and Science (see [section 13.6.5.2: Courses Outside the Faculties of Arts and Science](#) for the relevant regulations).

13.13.24 Neurology and Neurosurgery (NEUR)**13.13.24.1 Location**

Montreal Neurological Institute and Hospital
3801 University Street, Room 141
Montreal, Quebec H3A 2B4

13.13.24.2 About Neurology and Neurosurgery

There are no B.Sc. programs in Neurology and Neurosurgery, but the course NEUR 310 *Cellular Neurobiology*, which is part of the Minor in Neuroscience, is a course taught by the Faculty of Science.

13.13.25 Neuroscience**13.13.25.1 Location**

Director of Neuroscience
Professor Monroe Cohen
Department of Physiology
McIntyre Medical Sciences Building, Room 1150
3655 Promenade Sir-William-Osler
Montreal, Quebec H3G 1Y6

Interdisciplinary Programs Adviser

Wendy Brett, Adviser
 Telephone: 514-398-7330
 Email: wendy.brett@mcgill.ca
 Website: www.mcgill.ca/neuroscience

13.13.25.2 About Neuroscience

Neuroscience is a multidisciplinary science devoted to the understanding of the nervous system. The brain is one of the most complex systems in the universe, and understanding how it functions is among the most challenging questions in science. Scientists are investigating the brain at many levels, from the molecules at synapses to complex forms of behaviour, and use methods of inquiry that are drawn from a number of disciplines, including molecular and cellular biology, physiology, behavioural sciences and cognitive psychology, computer science, and artificial intelligence. In addition, scientists are investigating the nervous system of many different animals, from simple invertebrates to humans. These wide-ranging investigations are providing a clearer understanding of how neurons work; how they communicate with one another; how they are organized into local or distributed networks; how the connections between neurons are established and change with experience; how neuronal function is influenced by pharmacological agents, and during disease states. As a result, we are gaining deeper insights into the neural basis of mental activity, as well as developing new therapeutic approaches to alleviate neurological and psychological diseases.



Please note: New students are required to attend an information session held at the end of August. Please consult the neuroscience website in early August for the date and location.

13.13.25.3 Bachelor of Science (B.Sc.) - Minor Neuroscience (25 credits)

This Minor is intended to provide students with a basic understanding of how the nervous system functions. The Minor is composed of 25 credits: 13 required and 12 complementary. For the 12 complementary credits, at least 6 must be at the 400 or 500 level and not from the student's home department. All course selections for the Minor must be approved by the program's adviser, Wendy Brett (Email: wendy.brett@mcgill.ca; Office: Dawson Hall, Rm 405). A maximum of 6 credits can be counted for both the student's primary program and for the Minor in Neuroscience.

Required Courses (13 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere prior to starting at McGill must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Minor.

BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2

Complementary Courses (12 credits)

12 credits selected as follows:

- At least 6 of the 12 credits have to be at the 400 or 500 level.
- At least 6 of the 400- or 500-level credits have to be from outside the student's home department.

0-6 credits from the following list of 200- and 300-level courses:

Notes:

* Students may select ANAT 212 or BIOC 212 or BIOL 201.

** Students may select either BIOL 306 or PHGY 314.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306**	(3)	Neural Basis of Behaviour

BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
LING 390	(3)	Neuroscience of Language
NEUR 310	(3)	Cellular Neurobiology
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 314**	(3)	Integrative Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

6-12 credits from the following list of 400- and 500-level courses, and not from the student's home department:

*** Students may select either BIOL 514 or PSYC 514.

BIOL 514***	(3)	Neurobiology Learning and Memory
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514***	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 532	(3)	Cognitive Science
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 505	(3)	Neurobiology of Schizophrenia

13.13.25.4 Bachelor of Science (B.Sc.) - Major Neuroscience (65 credits)

The Major program in Neuroscience is a focused program for students interested in how the nervous system functions. It is highly interdisciplinary and borrows principles and methodologies from a number of fields including: biology, biochemistry, physiology, psychology, as well as mathematics, physics, computer science, and immunology. To ensure that students have the appropriate foundation, they are required to take 29 credits in lower-level courses from physiology, biology, mathematics, computer science, psychology, and ethics. While flexible, the program offers students a concentrated selection of 15 credits to be taken from one of three areas of current scientific activities in the neurosciences: Cell/Molecular, Neurophysiology/Computation, or

Cognition/Behaviour. In addition, students select 21 credits from a wide array of complementary courses to obtain more specialized training in areas of neuroscience that best suit their interest.

Note that enrolment in the Neuroscience Major is limited.

Program Prerequisites

Notes on admission to the Neuroscience Major program: Enrolment in the Neuroscience Major is limited to a total of 50 students per year. U0 students seeking admission to this program should consult the neuroscience website for admissions requirements and have completed the courses listed below or equivalent.

* Students complete one of MATH 139, MATH 140 OR MATH 150 but not both.

** Students complete one of either MATH 141 OR MATH 151 but not both.

*** Students complete one of either PHYS 101 OR PHYS 131 but not both.

+++ Students complete one of either PHYS 102 OR PHYS 142 but not both.

BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141**	(4)	Calculus 2
MATH 150*	(4)	Calculus A
MATH 151**	(4)	Calculus B
PHYS 101***	(4)	Introductory Physics - Mechanics
PHYS 102+++	(4)	Introductory Physics - Electromagnetism
PHYS 131***	(4)	Mechanics and Waves
PHYS 142+++	(4)	Electromagnetism and Optics

Core Required Courses (20 credits)

* Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 200	(3)	Molecular Biology
CHEM 212*	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar
PSYC 311	(3)	Human Cognition and the Brain

Complementary Courses (45 credits)

9 core credits selected as follows:

3 credits from:

BIOL 373	(3)	Biometry
PSYC 305	(3)	Statistics for Experimental Design

3 credits completed by taking the course below or an equivalent in Computer Science.

COMP 202	(3)	Foundations of Programming

3 credits from:

BIOL 309	(3)	Mathematical Models in Biology
MATH 222**	(3)	Calculus 3

** Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

Streams

15 credits selected from one of the following streams:

A. Cell and Molecular Stream

15 credits selected as follows:

9 credits as follows:

BIOC 311	(3)	Metabolic Biochemistry
BIOL 202	(3)	Basic Genetics
PHGY 311	(3)	Channels, Synapses & Hormones

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHAR 300	(3)	Drug Action

B. Neurophysiology/Neural Computation Stream

15 credits selected as follows:

6 credits as follows:

ANAT 321	(3)	Circuitry of the Human Brain
PHGY 311	(3)	Channels, Synapses & Hormones

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

3 credits from:

BIOL 309	(3)	Mathematical Models in Biology
COMP 206	(3)	Introduction to Software Systems
MATH 222**	(3)	Calculus 3

** Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

C. Cognitive/Behavioural Stream

15 credits selected as follows:

9 credits as follows:

ANAT 321	(3)	Circuitry of the Human Brain
PSYC 213	(3)	Cognition
PSYC 318	(3)	Behavioural Neuroscience 2

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

3 credits from:

LING 390	(3)	Neuroscience of Language
PSYC 302	(3)	The Psychology of Pain
PSYC 317	(3)	Genes and Behaviour
PSYC 342	(3)	Hormones and Behaviour

Other Complementary Courses

(21-23 credits)

3-16 credits from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 389	(3)	Laboratory in Neurobiology
NSCI 410	(6)	Independent Research 1
NSCI 420D1	(4.5)	Independent Research 2
NSCI 420D2	(4.5)	Independent Research 2

The remainder of the credits should be taken from the following lists. At least 15 of the 21-23 credits must be at the 400- or 500-level, which could include the above NSCI 410 or NSCI 420D1/NSCID2 research courses:

200- and 300-level courses:

* Students take either BIOL 201 OR BIOC 212, but not both.

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 320	(3)	Evolution of Brain and Behaviour
CHEM 222	(4)	Introductory Organic Chemistry 2
COMP 206	(3)	Introduction to Software Systems
LING 390	(3)	Neuroscience of Language
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology
PHAR 300	(3)	Drug Action
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 314	(3)	Integrative Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

** Students may take either MATH 437 OR PHYS 413, but not both.

BIOL 514	(3)	Neurobiology Learning and Memory
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems
MATH 437**	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	General Pharmacology 1
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology

PHGY 513	(3)	Cellular Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHYS 413**	(3)	Physical Basis of Physiology
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 532	(3)	Cognitive Science
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 505	(3)	Neurobiology of Schizophrenia
REDM 410	(3)	Writing Research Articles

13.13.25.5 Bachelor of Science (B.Sc.) - Honours Neuroscience (74 credits)

The Honours program is intended for students who are interested in laboratory-based research and in acquiring a foundation in each of the 3 streams of the Neuroscience Major Program (cell and molecular; neurophysiology and computational; cognition and behaviour). Students are admitted to the program after one year in a major.

The program is composed of 74 credits: 44 credits are required, including a 9-credit independent research project, and 30 credits are complementary. Because it is a limited-enrolment program, the entrance requirements for the Honours program are more stringent. Applicants must have taken a minimum of 27 graded credits in their U1 year, must have a CGPA of at least 3.50 and have obtained minimum grades of B+ in both NSCI 200 and NSCI 201, as well as a minimum grade of C in BIOL 200, BIOC 212 or BIOL 201, and CHEM 212. Additional requirements for applying are provided on the Neuroscience website: (www.mcgill.ca/neuroscience). Meeting the minimum requirements does not guarantee admission to the Honours Neuroscience Program.

To graduate from the program, students must have a CGPA of 3.30 and a minimum grade of B+ in NCSI 300, NCSI 400 and NCSI 430D1/D2.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.30, and a minimum grade of B+ in NSCI 300, NSCI 400 and NSCI 430.

Required Courses (44 credits)

* Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Honours Program.

ANAT 321	(3)	Circuitry of the Human Brain
BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202	(3)	Foundations of Programming
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar

NSCI 430D1	(4.5)	Honours Research Project
NSCI 430D2	(4.5)	Honours Research Project
PHGY 311	(3)	Channels, Synapses & Hormones
PSYC 311	(3)	Human Cognition and the Brain
PSYC 318	(3)	Behavioural Neuroscience 2

Complementary Courses (30 credits)

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
PSYC 305	(3)	Statistics for Experimental Design

3 credits from:

** Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 309	(3)	Mathematical Models in Biology
MATH 222**	(3)	Calculus 3

The remaining 21 credits should be taken from the following lists. At least 15 of the 21 credits must be taken at the 400- or 500-level.

200- and 300-level courses:

BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
CHEM 222	(4)	Introductory Organic Chemistry 2
COMP 206	(3)	Introduction to Software Systems
LING 390	(3)	Neuroscience of Language
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology
PHAR 300	(3)	Drug Action
PHGY 210	(3)	Mammalian Physiology 2

PHGY 314	(3)	Integrative Neuroscience
PSYC 213	(3)	Cognition
PSYC 302	(3)	The Psychology of Pain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

*** Students may take either MATH 437 OR PHYS 413, but not both.

BIOL 514	(3)	Neurobiology Learning and Memory
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems
MATH 437***	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	General Pharmacology 1
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 513	(3)	Cellular Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHYS 413***	(3)	Physical Basis of Physiology
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 532	(3)	Cognitive Science
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 505	(3)	Neurobiology of Schizophrenia
REDM 410	(3)	Writing Research Articles

13.13.26 Nutrition (NUTR)**13.13.26.1 Location**

School of Dietetics and Human Nutrition
 Macdonald-Stewart Building, Room MS2-039
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9

13.13.26.2 About Nutrition

The School of Dietetics and Human Nutrition offers a Minor in Human Nutrition which can be taken by Science students; see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Agricultural and Environmental Sciences > Undergraduate > Academic Programs > [section 2.5.6: Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\)](#)*.

NUTR 307 is considered as a course taught by the Faculty of Science and is offered simultaneously on both campuses.

13.13.27 Pathology (PATH)**13.13.27.1 Location**

Department of Pathology
 Duff Medical Building
 3775 University Street
 Montreal, Quebec H3A 2B4

13.13.27.2 About Pathology

There are no B.Sc. programs in Pathology, but the course PATH 300 *Human Disease* is considered as one taught by the Faculty of Science.

13.13.28 Pharmacology and Therapeutics (PHAR)**13.13.28.1 Location**

McIntyre Medical Building, Room 1325
 3655 Promenade Sir-William-Osler
 Montreal, Quebec H3G 1Y6

 Telephone: 514-398-3623
 Website: www.medicine.mcgill.ca/pharma

13.13.28.2 About Pharmacology and Therapeutics

Pharmacology is the science that deals with all aspects of drugs and their interactions with living organisms. Thus, it involves the physical and chemical properties of drugs, their biochemical and physiological effects, mechanisms of action, pharmacokinetics, and therapeutic and other uses. Since the word “drug” encompasses all chemical substances that produce an effect on living cells, it is evident that pharmacology is a very extensive subject. Pharmacology is a multidisciplinary science. It has developed its own set of principles and methods to study the mode of the action of drugs, but it has also utilized many techniques and approaches from various disciplines including biochemistry, physiology, anatomy, and molecular biology, as well as others. Pharmacology encompasses a number of different areas such as pharmacogenomics, molecular biology, bioinformatics, neuropharmacology, reproductive pharmacology, endocrine pharmacology, receptor pharmacology, cardiovascular pharmacology, toxicology, developmental pharmacology, autonomic pharmacology, biochemical pharmacology, and therapeutics.

Training in pharmacology is conducted at both the undergraduate and graduate levels. Because of its breadth, students may be attracted to the subject from a variety of viewpoints; this includes those completing a bachelor's degree in any number of basic science disciplines, such as biology, zoology, chemistry, physics, biochemistry, microbiology, anatomy, and physiology. At the undergraduate level, seven lecture courses are offered. A course involving research projects in pharmacology is also available to provide the student with the opportunity to get first-hand experience in a pharmacology research laboratory. These courses provide students with knowledge concerning the actions of drugs on living systems and insight into approaches to basic pharmacological research.

13.13.28.3 Pharmacology and Therapeutics (PHAR) Faculty

Chair

Gerhard Multhaup

Emeritus Professors

Radan Capek; M.D., Ph.D.(Prague)

Brian Collier; B.Sc., Ph.D.(Leeds)

Theodore Sourkes; Ph.D.(C'neil)

Hans H. Zingg; M.D., Ph.D.(McG.)

Professors

Guillermina Almazan; Ph.D.(McG.)

Paul B.S. Clarke; M.A.(Cant.), Ph.D.(Lond.)

A. Claudio Cuello; M.D.(Buenos Aires), M.A., D.Sc.(Oxf.), F.R.S.C.

Barbara Hales; M.Sc.(Phil. Coll. of Pharm. and Science), Ph.D.(McG.)

Dusica Maysinger; Ph.D.(USC)

Peter J. McLeod; M.D.(Manit.), F.R.C.P.(C.)

Gerhard Multhaup; Ph.D.(Cologne, Germany)

Alfredo Ribeiro-da-Silva; M.D., Ph.D.(Oporto)

Bernard Robaire; B.A.(Calif.), Ph.D.(McG.)

H. Uri Saragovi; Ph.D.(Miami)

Moshe Szyf; M.Sc., Ph.D.(Hebrew)

Jacquetta Trasler; M.D.,C.M., Ph.D.(McG.)

Associate Professors

Daniel Bernard; Ph.D.(Johns Hop.)

Derek Bowie; B.Sc., Ph.D.(Lond.)

Terence Hébert; M.Sc.(Windsor), Ph.D.(Tor.)

Anne McKinney; Ph.D.(Ulster)

Stanley Nattel; B.Sc., M.D.,C.M.(McG.)

Ante L. Padjen; M.D., M.Sc., D.Sc.(Zagreb)

Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

Assistant Professors

Lisa-Marie Munter; Ph.D.(Berlin, Germany)

Jason Chaim Tanny; Ph.D.(Harv.)

Associate Members

Moulay Alaoui-Jamali; Ph.D.(Sorbonne)

Martine Culty; Ph.D.(INSERM, Grenoble)

Giovanni Di Battista; B.Sc., Ph.D.(Montr.)

Lesley Fellows; M.D.(McG.), Ph.D.(Oxf.)

Pierre Fiset; M.D.(Laval), F.R.C.P.S.(C)

Serge Gauthier; M.D.(Montr.)

Timothy Geary; Ph.D.(Mich.)

Associate Members

Bertrand Jean-Claude; M.Sc.(Moncton), Ph.D.(McG.)
 Sarah Kimmins; Ph.D.(Dal.)
 Stephane Laporte; Ph.D.(Sher.)
 Cristian O'Flaherty; Ph.D.(McG.)
 Vassilios Papadopoulos; Ph.D.(Université Pierre et Marie Curie)
 Roger Prichard; B.Sc., Ph.D.(N.S.W.)
 Simon Rousseau; Ph.D.(Laval)
 Yoram Shir; M.D.(Israel), Ph.D.(Johns Hop.)
 Laura Stone; Ph.D.(Minn.)
 Marc Ware; M.D.(Univ. West Indies, Kingston, Jamaica)
 Tak Pan Wong; Ph.D.(McG.)

Adjunct Professors

Bruce Allen; Ph.D.(Br. Col.)
 Martin Bruno; Ph.D.(McG.)
 Sylvain Chemtob; M.D.(Montr.), Ph.D.(McG.)
 Yves De Koninck; Ph.D.(McG.)
 Lorella Garofalo; Ph.D.(McG.)
 Jennifer M.A. Laird; Ph.D.(Brist.)
 Joseph Mancini; M.Sc., Ph.D.(McG.)
 Karen Meerovitch; Ph.D.(McG.)
 Greg Miller; Ph.D.(W. Ont.)
 Thomas Sanderson; Ph.D.(Br. Col.)

13.13.28.4 Bachelor of Science (B.Sc.) - Minor Pharmacology (24 credits)

The Minor Pharmacology is intended for students registered in a complementary B.Sc. program who are interested in a focused introduction to specialized topics in pharmacology to prepare them for professional schools, graduate education, or entry into jobs in industry or research institutes. Students should declare their intent to enter the Minor in Pharmacology at the beginning of their U2 year. They must consult with, and obtain the approval of, the Coordinator for the Minor Program in the Department of Pharmacology and Therapeutics. (Please contact the coordinator: Dr. Terry Hébert; terence.hebert@mcgill.ca; 514-398-1398).

All courses in the Minor program must be passed with a minimum grade C or better. Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program.

Required Courses (12 credits)

PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology

BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

6 credits, chosen from:

* PHAR 504 can be taken with PHAR 503 only.

PHAR 303	(3)	Principles of Toxicology
PHAR 503*	(3)	Drug Discovery and Development 1
PHAR 504*	(3)	Drug Discovery and Development 2
PHAR 558	(3)	Pharmacology Selected Topics
PHAR 599	(6)	Pharmacology Research Project

13.13.28.5 Bachelor of Science (B.Sc.) - Major Pharmacology (65 credits)

This program incorporates extensive studies in Pharmacology with a strong component of related biomedical sciences, providing a solid preparation for employment opportunities or for entry into graduate or professional training programs. Students must consult an adviser upon entering the program and at the beginning of U2 to verify courses and progress. Additional consultation at regular intervals is encouraged.

U1 Required Courses (22 credits)

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

U2 Required Courses (16 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology

U3 Required Courses (12 credits)

PHAR 503	(3)	Drug Discovery and Development 1
PHAR 558	(3)	Pharmacology Selected Topics
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits selected from (usually in Year 1):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits selected from (usually in Year 2):

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3 credits selected from (usually in Year 2):

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

6 credits selected from the following upper-level science courses:

Committee approval is required to substitute an upper-level science course not in the list below.

PHAR 599D1 and PHAR 599D2 are taken together.

* Note: Students may take either ANAT 458 or BIOC 458.

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
CHEM 504	(3)	Drug Design and Development 2
CHEM 522	(3)	Stereochemistry
CHEM 552	(3)	Physical Organic Chemistry
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems

EXMD 504	(3)	Biology of Cancer
EXMD 511	(3)	Joint Venturing with Industry
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
NEUR 310	(3)	Cellular Neurobiology
PATH 300	(3)	Human Disease
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 599D1	(3)	Pharmacology Research Project
PHAR 599D2	(3)	Pharmacology Research Project
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 520	(3)	Ion Channels
PSYC 311	(3)	Human Cognition and the Brain
PSYT 455	(3)	Neurochemistry

13.13.28.6 Bachelor of Science (B.Sc.) - Honours Pharmacology (74 credits)

The Honours program is designed as a preparation for graduate studies and research. In addition to the strong training provided by the Major program, it requires students to have direct research experience in a chosen area during their final year of study. Acceptance into the Honours program takes place in the Winter term of U2 and requires a CGPA of 3.30. Students who wish to enter the Honours program should follow the Major program; those who satisfactorily complete the first three terms with a CGPA of at least 3.30 and a mark of B or higher in core Pharmacology courses are eligible for admission. Applications can be obtained from the office of the Department of Pharmacology in the McIntyre Medical Building or on the departmental website.

U1 Required Courses (22 credits)

* Students with prior credit for CHEM 212 may take an elective in place of this course.

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

U2 Required Courses (16 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology

U3 Required Courses (18 credits)

* PHAR 599D1 and PHAR 599D2 are taken together.

PHAR 503	(3)	Drug Discovery and Development 1
PHAR 558	(3)	Pharmacology Selected Topics
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHAR 599D1*	(3)	Pharmacology Research Project
PHAR 599D2*	(3)	Pharmacology Research Project

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits selected from (usually in Year 1):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits selected from (usually in Year 2):

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3 credits selected from (usually in Year 2):

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

9 credits selected from the following upper-level science courses:

Committee approval is required to substitute an upper-level science course not in the list below.

* Note: Students may take either ANAT 458 or BIOC 458.

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 302	(3)	Introductory Organic Chemistry 3

CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
CHEM 504	(3)	Drug Design and Development 2
CHEM 522	(3)	Stereochemistry
CHEM 552	(3)	Physical Organic Chemistry
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 504	(3)	Biology of Cancer
EXMD 511	(3)	Joint Venturing with Industry
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
NEUR 310	(3)	Cellular Neurobiology
PATH 300	(3)	Human Disease
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 520	(3)	Ion Channels
PSYC 311	(3)	Human Cognition and the Brain
PSYT 455	(3)	Neurochemistry

13.13.29 Physics (PHYS)

13.13.29.1 Location

Rutherford Physics Building, Room 108
3600 University Street
Montreal, Quebec H3A 2T8

Telephone: 514-398-6477

Fax: 514-398-8434

Email: secretariat@physics.mcgill.ca

Website: www.physics.mcgill.ca

13.13.29.2 About Physics

Physics is in many ways the parent of the other natural sciences and its discoveries and laws continually affect their development. Its range and scope extend in space and time from subnuclear particles to the universe itself. The subfields of physics such as mechanics, thermodynamics, electricity, atomic physics, and quantum mechanics, to mention but a few, permeate all other scientific disciplines. People trained in physics are employed in industry, government, and educational systems where they find many challenges as teachers, researchers, administrators, and in the rapidly developing area of scientific business.

The two main undergraduate programs in physics at McGill are the Honours and the Major. The Honours program is highly specialized and the courses are very demanding. This program is appropriate for students who wish to make an in-depth study of the subject in preparation for graduate work and an academic or professional career in physics. The two joint honours programs, one in Mathematics and Physics and the other in Physics and Chemistry, are even more specialized and demanding. They are intended for students who wish to develop a strong basis in both physics and the other discipline and are intended as preparation for graduate work and a professional or academic career. Although these two programs have a bias for theoretical work, they are broad enough and strong enough to prepare students for further study in either experimental physics or respectively mathematics or chemistry. High standing in CEGEP or Freshman-year mathematics and physics is a requirement for admission to these honours programs.

The Major program, on the other hand, offers a broad training in classical and modern physics and yet leaves room for the student to take a meaningful sequence of courses in other areas. It is intended primarily for students who wish to pursue careers in fields for which physics provides a basis. However, this program also provides a preparation for graduate studies.

It is possible for students to transfer from the Major program to the Honours program after the first year of studies; see [section 13.13.29.9: Bachelor of Science \(B.Sc.\) - Major Physics \(60 credits\)](#).

There are also a number of other major programs: Atmospheric Sciences and Physics, Physics and Computer Science, Physics and Geophysics, and Physiology and Physics, offered jointly with other departments, and a minor program in Electrical Engineering, available only to students in the Physics Major program. In addition, there is a minor in Physics and a core Physics component of the Liberal Science program, for students less interested in a specialized education.

For those interested in a career as a high school science teacher, the concurrent program leading to both a B.Sc. and a B.Ed. degree provides several physics options. These combine physics courses from the Major and Minor programs with courses from either Biology or Chemistry and with Education courses. (For details, see [section 13.13.34: Science or Mathematics for Teachers](#).)

Students from outside of the Province of Quebec will ordinarily register in the Science Freshman program. Physics offers two sequences of courses for this program: they are described below.

The list of pre- and corequisites is not absolute. In many cases, permission of the Department may be sought to have a specific prerequisite waived. The procedure is to ask the professor in charge of the course to review the request for such a waiver. The prerequisites of the 100-level courses are described in the following section entitled Science Freshman program.

Students interested in any of the Physics programs should contact the Department for an adviser.

A Science major concentration in physics is available to students pursuing the B.A. & Sc. degree. This Major concentration is described in *Programs, Courses and University Regulations > Faculties & Schools > Bachelor of Arts and Science > Undergraduate > Academic Programs > [section 4.10.37: Physics \(PHYS\)](#)*.

13.13.29.3 Internship Year in Science (IYS)

IYS is a pregraduate work experience program available to eligible students and normally taken between their U2 and U3 years. For more information, see [section 13.12.1: Industrial Practicum \(IP\) and Internship Year in Science \(IYS\)](#).

The following programs are also available with an internship component:

- Major in Physics
- Honours in Physics
- Joint Honours Program in Physics and Chemistry
- Joint Honours Program in Physics and Mathematics
- Joint Major Program in Atmospheric Science and Physics
- Joint Major Program in Physics and Computer Science
- Joint Major Program in Physics and Geophysics

13.13.29.4 Science Freshman Program

Students entering McGill with a Quebec CEGEP profile in Science will normally begin their programs in Physics with courses at the 200 level.

Students without this profile should normally take courses PHYS 131 and PHYS 142 if they have previously taken physics at the high school level and should be taking differential calculus concurrently with PHYS 131 and integral calculus concurrently with PHYS 142. Those students who have not previously taken physics at the high school level and who intend to do programs in the Biological Sciences may instead take courses PHYS 101 and PHYS 102. All students are expected to have reasonable fluency in algebra, geometry, and trigonometry at the high school level. If this is not the case, then MATH 112 should be taken concurrently with PHYS 101. Those for whom this is not necessary are advised to take MATH 139 concurrently with PHYS 101.

13.13.29.5 Physics (PHYS) Faculty

Chair

C. Gale

Emeritus Professors

Subal Das Gupta; B.A., M.Sc.(Calc.), Ph.D.(McM.) (*William C. Macdonald Emeritus Professor of Physics*)

Nicholas DeTakacs; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

Harry C.S. Lam; B.Sc.(McG.), Ph.D.(MIT)

Tommy S.K. Mark; B.Sc., M.Sc., Ph.D.(McG.) (*William C. Macdonald Emeritus Professor of Physics*)

Douglas G. Stairs; B.Sc., M.Sc.(Qu.), Ph.D.(Harv.) (*William C. Macdonald Emeritus Professor of Physics*)

John O. Strom-Olsen; B.A., M.S., Ph.D.(Cant.)

Martin J. Zuckermann; M.A., D.Phil.(Oxf.), F.R.S.C. (*William C. Macdonald Emeritus Professor of Physics*)

Post-Retirement Appointments

Z. Altounian; B.Sc., M.Sc.(Cairo), Ph.D.(McM.)

Jean Barrette; B.Sc., M.Sc., Ph.D.(Montr.)

John E. Crawford; B.A., M.A.(Tor.), Ph.D.(McG.)

Professors

Robert Brandenberger; Dipl., A.M., Ph.D.(Harv.) (*Canada Research Chair*)

James M. Cline; B.Sc.(Calif.), M.Sc., Ph.D.(Calif. Tech.)

François Corriveau; B.Sc.(Laval), M.Sc.(Br. Col.), Docteur Sc.Nat.(Zurich)

Charles Gale; B.Sc.(Ott.), M.Sc., Ph.D.(McG.) (*James McGill Professor*)

Martin Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.), F.R.S.C. (*James McGill Professor*)

Peter Grutter; Dipl., Ph.D.(Basel) (*James McGill Professor*)

Hong Guo; B.Sc.(Sichuan), M.Sc., Ph.D.(Pitt.), F.R.S.C. (*James McGill Professor*)

David Hanna; B.Sc.(McG.), M.A., Ph.D.(Harv.) (*William C. Macdonald Professor of Physics*)

Sangyong Jeon; B.Sc.(Seoul), M.Sc., Ph.D.(Wash.)

Victoria Kaspi; B.Sc.(McG.), M.A., Ph.D.(Princ.) (*Canada Research Chair*) (*Lorne Trottier Chair in Astrophysics and Cosmology*)

Shaun Lovejoy; B.A.(Cant.), Ph.D.(McG.)

Nikolas Provatas; B.Sc., M.Sc., Ph.D. (McG.)

Kenneth J. Ragan; B.Sc.(Alta.), D.Sc.(Geneva) (*William C. Macdonald Professor of Physics*)

Dominic H. Ryan; B.A., Ph.D.(Trin. Coll.)

Mark Sutton; B.Sc., M.Sc., Ph.D.(Tor.) (*Ernest Rutherford Professor of Physics*)

Associate Professors

Aashish Clerk; B.Sc.(Tor.), Ph.D.(C'nell) (*Canada Research Chair*)

Andrew Cumming; B.A.(Camb.), Ph.D.(Calif., Berk.)

Keshav Dasgupta; B.Sc., M.Sc.(Indian IT), Ph.D.(Tata)

Matt Dobbs; B.Sc.(McG.), Ph.D.(Vic., BC) (*Canada Research Chair*)

Guillaume Gervais; B.Sc.(Sher.), M.Sc.(McM.), Ph.D.(North. Univ.)

Michael Hilke; B.Sc., M.Sc., Ph.D.(Geneva)

Gil Holder; B.Sc., M.Sc.(Qu.), Ph.D.(Chic.) (*Canada Research Chair*)

Alex Maloney; B.Sc., M.Sc.(Stan.), Ph.D.(Harv.) (*William Dawson Scholar*)

Guy Moore; B.Sc.(Calif.), Ph.D.(Princ.)

Steve Robertson; B.Sc.(Calg.), M.Sc., Ph.D.(Vic., BC)

Bob Rutledge; B.Sc.(USC), Ph.D.(MIT)

Brigitte Vachon; B.Sc.(McG.), Ph.D.(Vic., BC) (*Canada Research Chair*)

Andreas Warburton; B.Sc.(Vic., BC), M.Sc., Ph.D.(Tor.)

Paul Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.) (*joint appt. with Chemistry*)

Assistant Professors

Lilian Childress; B.A., Ph.D.(Harv.)

William Coish; B.Sc.(Manit.), M.Sc.(McM.), Ph.D.(Basel)

David Cooke; B.Sc.(St. FX), Ph.D.(Alta.)

Paul Francois; B.Sc.(Polytechnique, France), M.Sc., Ph.D.(École normale supérieure)

Sabrina Leslie; B.Sc.(Br. Col.), Ph.D.(Calif., Berk.)

Tamar Pereg-Barnea; B.Sc.(Hebrew), M.Sc., Ph.D.(Br. Col.)

Assistant Professors

Walter Reisner; B.Sc.(Reed), Ph.D.(Princ.)

Jack Sankey; B.Sc.(Minn.), M.Sc., Ph.D.(C'nell)

Brad Siwick; B.A.Sc., M.Sc., Ph.D.(Tor.) (*Canada Research Chair*)

Johannes Walcher; Dipl., Ph.D.(ETH Zurich)

Tracy Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

Lecturer

F. Buchinger; Dipl.(Mainz), Ph.D.(Joh. Gutenberg U.)

Associate Members

M. Chacron (*Physiology*)

M.A. El Naqa (*Biomedical Engineering*)

K. Gehring (*Biochemistry*)

P. Hayden (*Computer Science*)

P. Kambhampati (*Chemistry*)

M. Mackey (*Physiology*)

Z. Mi (*Electrical and Computer Engineering*)

J. Nadeau (*Biomedical Engineering*)

G.B. Pike (*MNI & Biomedical Engineering*)

E. Podgorsak (*Radiation Oncology*)

D. Rassier (*Kinesiology & Physical Education*)

D. Ronis (*Chemistry*)

J. Seuntjens (*Medical Physics*)

T. Szkopek (*Electrical & Computer Engineering*)

Curator (Rutherford Museum and McPherson Collection)

Jean Barrette; B.Sc., M.Sc., Ph.D.(Montr.)

13.13.29.6 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

PHYS 257	(3)	Experimental Methods 1

Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

13.13.29.7 Bachelor of Science (B.Sc.) - Minor Electrical Engineering (24 credits)

[Program registration done by Student Affairs Office]

The Minor program does not carry professional recognition. Only students who satisfy the requirements of the Major Physics are eligible for this Minor. Students registered for this option cannot count PHYS 241 toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course. Students who select ECSE 334 in the Minor cannot count PHYS 328 toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course.

Required Courses (12 credits)

ECSE 200	(3)	Electric Circuits 1
ECSE 210	(3)	Electric Circuits 2
ECSE 303	(3)	Signals and Systems 1
ECSE 330	(3)	Introduction to Electronics

Complementary Courses (12 credits)

3 credits from the following and 9 credits of ECSE courses at the 200, 300, or 400 level subject to approval by the Department of Electrical and Computer Engineering.

ECSE 305	(3)	Probability and Random Signals 1
ECSE 334	(3)	Introduction to Microelectronics

13.13.29.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physics (48 credits)

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1

CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

Required Courses (39 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 436	(3)	Modern Physics
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses (9 credits)

9 credits selected from:

PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics

13.13.29.9 Bachelor of Science (B.Sc.) - Major Physics (60 credits)

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (21 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (24 credits)

MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves

U3 Required Courses (15 credits)

PHYS 434	(3)	Optics
PHYS 436	(3)	Modern Physics
PHYS 439	(3)	Majors Laboratory in Modern Physics

PHYS 446	(3)	Majors Quantum Physics
PHYS 449	(3)	Majors Research Project

It is possible for students to transfer from the Major to the Honours program after the U1 year if they have passed all U1 Required courses and MATH 314 and MATH 315 with a C or better, and obtained a GPA of 3.5 or better in these courses. The written permission of an adviser is required for this change of program.

Note: The missing MATH 249 and PHYS 260 from the U1 Honours Year should be taken in U2.

13132910 Bachelor of Science (B.Sc.) - Major Physics and Geophysics (69 credits)

This joint program in Physics and Geophysics provides a firm basis for graduate work in geophysics and related fields as well as a sound preparation for those who wish to embark on a career directly after the B.Sc.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (30 credits)

EPSC 203	(3)	Structural Geology
EPSC 210	(3)	Introductory Mineralogy
EPSC 231	(3)	Field School 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (18 credits)

EPSC 320	(3)	Elementary Earth Physics
EPSC 350	(3)	Tectonics
MATH 315	(3)	Ordinary Differential Equations
MATH 319	(3)	Introduction to Partial Differential Equations
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism

U2 or U3 Required Courses (6 credits)

EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 510	(3)	Geodynamics and Geomagnetism

U3 Required Courses (15 credits)

PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids
PHYS 446	(3)	Majors Quantum Physics

13132911 Bachelor of Science (B.Sc.) - Major Physics and Computer Science (66 credits)

The Major Physics and Computer Science is designed to give motivated students the opportunity to combine the two fields in a way that will distinguish them from the graduates of either field by itself. The two disciplines complement each other, with physics providing an analytic problem-solving outlook and basic understanding of nature, while computer science enhances the ability to make practical and marketable applications, in addition to having its own theoretical interest. Graduates of this program may be able to present themselves as being more immediately useful than a pure physics major, but with more breadth than just a programmer. They will be able to demonstrate their combined expertise in the Special Project course which is the centrepiece of the final year of the program.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (21 credits)

COMP 250	(3)	Introduction to Computer Science
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures 1
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (24 credits)

COMP 206	(3)	Introduction to Software Systems
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 350	(3)	Numerical Computing
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing

U3 Required Courses (21 credits)

COMP 360	(3)	Algorithm Design
MATH 323	(3)	Probability
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics
PHYS 489	(3)	Special Project

~~131329~~12 Bachelor of Science (B.Sc.) - Honours Physics (78 credits)

Students entering this program for the first time should have high standing in mathematics and physics. In addition, a student who has not completed the equivalent of MATH 222 must take it in the first term without receiving credit toward the 78 credits required in the Honours program.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (unless it is improved to a C or higher in a supplementary examination or by retaking the course), may not register in the Honours program the following year, or graduate with the Honours degree, except with the permission of the Department.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (27 credits)

MATH 247	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Advanced Calculus
MATH 249	(3)	Honours Complex Variables
MATH 325	(3)	Honours Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 260	(3)	Modern Physics and Relativity

U2 Required Courses (24 credits)

MATH 375	(3)	Honours Partial Differential Equations
PHYS 253	(3)	Thermal Physics
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 359	(3)	Honours Laboratory in Modern Physics 1
PHYS 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

U3 Required Courses (6 credits)

PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 551	(3)	Quantum Theory

U3 Complementary Courses (21 credits)

6 credits selected from:

Note: PHYS 459D1 and PHYS 459D2 are taken together.

PHYS 459D1	(3)	Honours Research Thesis

PHYS 459D2	(3)	Honours Research Thesis
PHYS 469	(3)	Honours Laboratory in Modern Physics 2
PHYS 479	(3)	Honours Research Project

15 credits selected from the list below (students may substitute one or more courses with any 3-credit course approved by the Department of Physics):

PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 479	(3)	Honours Research Project
PHYS 514	(3)	General Relativity
PHYS 521	(3)	Astrophysics
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics
PHYS 580	(3)	Introduction to String Theory

13132913 Bachelor of Science (B.Sc.) - Honours Mathematics and Physics (81 credits)

This is a specialized and demanding program intended for students who wish to develop a strong basis in both Mathematics and Physics in preparation for graduate work and a professional or academic career. Although the program is optimized for theoretical physics, it is broad enough and strong enough to prepare students for further study in either experimental physics or mathematics.

The minimum requirement for entry into the program is completion with high standing of the usual CEGEP courses in physics and in mathematics, or the Physics Program Prerequisites as explained below. In addition, a student who has not completed the equivalent of MATH 222 must take it in the first term without receiving credit toward the 81 credits required in the Honours program.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (unless the student improves the grade to a C or higher through a supplemental exam or by retaking the course), may not register in the Honours program the following year, or graduate with the Honours degree, except with the permission of both departments. The student will have two advisers, one from Mathematics and the other from Physics.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (27 credits)

MATH 235	(3)	Algebra 1
MATH 248	(3)	Honours Advanced Calculus
MATH 249	(3)	Honours Complex Variables
MATH 325	(3)	Honours Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 260	(3)	Modern Physics and Relativity

U2 Required Courses (27 credits)

MATH 242	(3)	Analysis 1
MATH 255	(3)	Honours Analysis 2
MATH 375	(3)	Honours Partial Differential Equations
PHYS 253	(3)	Thermal Physics
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

U3 Required Courses (12 credits)

MATH 354	(3)	Honours Analysis 3
MATH 380	(3)	Honours Differential Geometry
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 359	(3)	Honours Laboratory in Modern Physics 1

U1 Complementary Course (3 credits)

MATH 247	(3)	Honours Applied Linear Algebra
MATH 251	(3)	Honours Algebra 2

U3 Complementary Courses (12 credits)

12 credits are selected as follows:

3 credits from:

MATH 355	(3)	Honours Analysis 4
MATH 370	(3)	Honours Algebra 3

6 credits selected from:

PHYS 432	(3)	Physics of Fluids
PHYS 479	(3)	Honours Research Project
PHYS 514	(3)	General Relativity
PHYS 521	(3)	Astrophysics
PHYS 551	(3)	Quantum Theory
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics
PHYS 580	(3)	Introduction to String Theory

3 credits in Honours Mathematics.

13132914 Bachelor of Science (B.Sc.) - Honours Physics and Chemistry (80 credits)

This is a specialized and demanding program intended primarily, although not exclusively, for students with a theoretical bias who are interested in working in fields of study at the crossroads of physical chemistry and physics. The program will prepare students for either theoretical or experimental graduate work in departments where there is an emphasis on such cross-disciplinary areas as condensed matter physics, chemical physics, or material science.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (unless the student improves the grade to a C or above by taking a supplemental exam or retaking the course), may not register in this Honours program the following year, or graduate with the Honours degree, except with permission of both departments.

The student will have two advisers, one from Chemistry and the other from Physics.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (30 credits)

CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
MATH 247	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Advanced Calculus
MATH 249	(3)	Honours Complex Variables
MATH 325	(3)	Honours Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (24 credits)

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
COMP 208	(3)	Computers in Engineering
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 457	(3)	Honours Quantum Physics 2

U3 Required Courses (14 credits)

CHEM 393	(2)	Physical Chemistry Laboratory 2
CHEM 556	(3)	Advanced Quantum Mechanics
CHEM 574	(3)	Introductory Polymer Chemistry
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 558	(3)	Solid State Physics

U3 Complementary Courses (12 credits)

(with at least 3 credits in Chemistry and 3 credits in Physics)

3 credits selected from:

CHEM 593	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics

9 credits selected from the list below:

CHEM 480D1	(1.5)	Research Project 2
CHEM 480D2	(1.5)	Research Project 2
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 575	(3)	Chemical Kinetics

CHEM 585	(3)	Colloid Chemistry
MATH 375	(3)	Honours Partial Differential Equations
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 434	(3)	Optics
PHYS 469	(3)	Honours Laboratory in Modern Physics 2
PHYS 479	(3)	Honours Research Project
PHYS 562	(3)	Electromagnetic Theory

13.13.29.15 Physics (PHYS) Related Programs

13.13.29.15.1 Joint Major in Atmospheric Science and Physics

See [section 13.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#). This program provides a firm basis for graduate work in atmospheric science and related fields as well as a sound preparation for those who wish to embark on a career directly after the B.Sc. Students should consult undergraduate advisers in both departments.

13.13.29.15.2 Joint Major in Physiology and Physics

See [section 13.13.30: Physiology \(PHGY\)](#). This program provides a firm basis for graduate work in bio-physics and other interdisciplinary fields involving the physical and biological sciences.

13.13.30 Physiology (PHGY)

13.13.30.1 Location

McIntyre Medical Sciences Building, Room 1021
3655 Promenade Sir-William-Osler
Montreal, Quebec H3G 1Y6

Telephone: 514-398-4316

Fax: 514-398-7452

Website: www.medicine.mcgill.ca/physio

13.13.30.2 About Physiology

Physiology has its roots in many of the basic sciences including biology, chemistry, mathematics, and physics. Physiology overlaps with other biomedical sciences such as anatomy, biochemistry, pathology and pharmacology, and with psychology and biomedical engineering, and is one of the prime contributors of basic scientific knowledge to the clinical medical sciences.

Members of the Department of Physiology at McGill are engaged in studies dealing with molecules, single cells, or entire systems in a variety of vertebrates, including man. A wide range of interest and expertise is represented, including cardiovascular, respiratory, gastrointestinal and renal physiology, the physiology of exercise, neurophysiology, endocrinology, immunology, biophysics, and biomathematics. Some faculty members have formal or informal links with the departments of mathematics, physics, electrical engineering, and chemistry, and with clinical departments (medicine, surgery, pediatrics, neurology, obstetrics, psychiatry, anesthesia), reflecting and reinforcing the close ties between physiology and other disciplines.

Graduates at the B.Sc. level have found rewarding careers in teaching, in secondary schools and CEGEPs, government service, and laboratory technical assistance, such as in pharmaceutical houses, hospitals, and institutions of higher learning. Moreover, physiology provides an excellent background for medicine, dentistry or other postgraduate work, in such fields as physiology, experimental medicine, pharmacology, biochemistry, or physiological psychology.

The programs offered in Physiology differ in their orientation but they all have a common core of material covering cardiovascular, respiratory, gastrointestinal and renal physiology, neurophysiology, endocrinology, and immunology. The specified U1 courses are identical for all programs except the Joint Major programs in Physiology and Physics, Physiology and Mathematics, and the Joint Honours program in Immunology, and thus afford the student maximal flexibility before deciding on a particular program to follow in U2 and U3.

Academic advising is compulsory. All new students to the Department, Freshman and CEGEP, must see an adviser upon entering the program. Contact the Student Affairs Officer at 514-398-3689 for more information.

Returning students are required to consult with their advisers during the advising period for returning students, and regularly throughout the year. It is important that graduating students have their record checked by their adviser at the beginning of their final year.



PLEASE NOTE: Complementary courses are not electives.

The difference between complementary courses and required courses is that complementary courses are defined as offering an element of choice, however small that choice may be. Students may choose from the two (or more) courses specified within complementary course segments of a program description,

but ONLY from those. For further information, refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > [section 1.3.2: Course Information and Regulations](#)*.

13.13.30.3 Physiology (PHGY) Faculty

Chair

John Orłowski

Emeritus Professors

Thomas M.S. Chang; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C)

Kresmir Krnjević; O.C., B.Sc., Ph.D., M.B., Ch.B.(Edin.), F.R.S.C

Wayne Lapp; M.S.A.(Tor.), Ph.D.(McG.)

Mortimer Levy; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C) (*joint appt. with Medicine*)

George Mandl; B.Sc.(C'dia), Ph.D.(McG.)

G. Melvill Jones; B.A., M.A., M.B., B.Ch., M.D.(Cant.)

J. Milic-Emili; M.D.(Milan)

C. Polosa; M.D., Ph.D.

Douglas G.D. Watt; M.D., Ph.D.(McG.)

Professors

Monroe W. Cohen; B.Sc., Ph.D.(McG.)

Ellis J. Cooper; B.Eng.(Sir G. Wms.), M.Sc.(Sur.), Ph.D.(McM.)

Kathleen Cullen; B.Sc.(Brown), Ph.D.(Chic.)

Leon Glass; B.S.(Brooklyn), Ph.D.(Chic.) (*Isadore Rosenfeld Professor of Cardiology*)

Phil Gold; C.C., B.Sc., M.Sc., Ph.D., M.D., C.M.(McG.), F.R.C.P.(C.), F.R.S.C. (*Douglas G. Cameron Professor of Medicine*) (*joint appt. with Medicine*)

David Goltzman; B.Sc., M.D., C.M.(McG.) (*Antoine G. Massabki Professor of Medicine*) (*joint appt. with Medicine*)

John Hanrahan; Ph.D.(Br. Col.)

Gergely Lukacs; M.D., Ph.D.(Budapest)

Michael Mackey; B.A., Ph.D.(Wash.) (*Joseph Morley Drake Professor of Physiology*)

Sheldon Magder; M.D.(Tor.) (*joint appt. with Medicine*)

Jacapo P. Mortola; M.D.(Milan)

John Orłowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (*James McGill Professor*)

Premysl Ponka; M.D., Ph.D.(Prague)

Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.) (*Hosmer Professor of Applied Physiology*)

John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.)

Assistant Professors

Claire Brown; B.Sc.(St. Mary's) Ph.D.(W. Ont.)

Russell Jones; Ph.D.(Tor.)

Anmar Khadra; B.Sc.(C'dia), M.Sc., Ph.D.(Wat.)

Anastasiya Nyzhnyk; M.Biochem., Ph.D.(Oxf.)

Reza Sharif-Naeini; B.Sc.(Montr.), M.Sc., Ph.D.(McG.)

Associate Professors

Maurice Chacron; Ph.D.(Ott.)

Erik Cook; Ph.D.(Baylor College, Houston)

Mladen Glavinovic; B.Sc.(Zagreb), M.Sc.(Tor.), Ph.D.(McG.)

Associate Professors

Michael Guevara; B.Sc., M.Eng., Ph.D.(McG.)

Pejmun Haghighi; Ph.D.(McG.)

Julio Martinez-Trujillo; Ph.D.(Tübingen)

Ursula Stochaj; Ph.D.(Cologne)

Ann Wechsler; B.A.(Tor.), M.Sc., Ph.D.(McG.)

Associate Professor (Part-time)

Nicole Bernard; B.Sc.(McG.), Ph.D.(Duke)

Associate Members

Anaesthesia: Steven Backman

Biomedical Engineering: Robert E. Kearney, Satya Prakash

Dentistry: Fernando Cervero

Electrical and Computer Engineering: Sam Musallam

Kinesiology and Physical Education: Dilson Rassier

Medicine: Volker Blank, Mark Blostein, Andrey Cybulsky, Raymonde Gagnon, Geoffrey Hendy, Louise Larose, Anne Marie Lauzon, Serge Lemay, James Martin, Mariana Newkirk, Barry Posner, Shafaat Rabbani, Mary Stevenson, Tomoko Takano, Elena Torban, Simon Wing, Hans Zingg

Microbiology and Immunology: Jörg Fritz

Neurology and Neurosurgery: Jack Antel, Massimo Avoli, Daniel Guitton, Christopher Pack, David Ragsdale, Ed Ruthazer, Amir Shmuel, Melissa Vollrath

Ophthalmology: Curtis Baker

Otolaryngology: Bernard Segal

Pediatrics: Charles Rohlicek

Pharmacology: Terence Hebert

Psychiatry: Nicolas Cermakian, Bernardo Dubrovsky,

Research in Neuroscience: Charles Bourque, Sal T. Carbonetto

Adjunct Professor

Roy Caplan, Montreal

13.13.30.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physiology (50 credits)**Required Courses (38 credits)**

* Students who have taken CHEM 212 and/or CHEM 222 in CEGEP are exempted and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology

PHGY 314 (3) Integrative Neuroscience

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits selected from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry

Upper-Level Physiology (ULP) Courses

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

All Physiology courses 400 level and above.

Note:

The 6-credit course PHGY 459D1/D2 equals 3 credits of ULP and 3 credits of electives.

The 9-credit course PHGY 461D1/D2 equals 3 credits of ULP and 6 credits of electives.

ANAT 541	(3)	Cell and Molecular Biology of Aging
BIOL 532	(3)	Developmental Neurobiology Seminar
BMDE 519	(3)	Biomedical Signals and Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
PHGY 524	(3)	Chronobiology
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

13.13.30.5 Bachelor of Science (B.Sc.) - Major Physiology (65 credits)

The Major program includes, in addition to some intensive studies in Physiology, a strong core content of related biomedical sciences. Admission to the Major program will be in U2, upon completion of the U1 required courses, and in consultation with the student's adviser.

If not previously taken, CHEM 212 "Introductory Organic Chemistry 1" must be completed in addition to the 64-65 program credits.

Students may complete this program with a minimum of 64 credits or a maximum of 65 credits depending on their choice of complementary courses.

U1 Required Courses (18 credits)

BIOL 200	(3)	Molecular Biology

BIOL 202	(3)	Basic Genetics
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

U2 and U3 Required Courses (19 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

Complementary Courses (28 credits)

12-13 credits selected as follows:

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry

3 credits, one of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3-4 credits, one of:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology

Upper Level Physiology (ULP) Courses

9 credits selected from the Upper-Level Physiology (ULP) course list as follows:

All Physiology courses 400 level and above.

Note:

The 6-credit course PHGY 459D1/D2 equals 3 credits of ULP and 3 credits of electives.

The 9-credit course PHGY 461D1/D2 equals 3 credits of ULP and 6 credits of electives.

ANAT 541	(3)	Cell and Molecular Biology of Aging

BIOL 532	(3)	Developmental Neurobiology Seminar
BMDE 519	(3)	Biomedical Signals and Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
PHGY 524	(3)	Chronobiology
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

Upper Level Science (ULS) Courses

6 credits selected from the Upper-Level Science (ULS) course list as follows:

Note:

For Anatomy, Chemistry, Neurology, and Neurosurgery: select from all courses 300 level and above and the ULS courses listed below.

For Biochemistry, Computer Science, Microbiology and Immunology, Mathematics, Physics, and Pathology: select from all courses 300 level and above.

For Biology, Experimental Medicine, Pharmacology, and Psychology: select from the ULS courses listed below:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 324	(3)	Ecological Genetics
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 468	(6)	Independent Research Project 3
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics

BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
EXMD 510	(3)	Bioanalytical Separation Methods
NEUR 310	(3)	Cellular Neurobiology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHAR 599	(6)	Pharmacology Research Project
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

13.13.30.6 Bachelor of Science (B.Sc.) - Major Physiology and Mathematics (77 credits)

U1 Required Courses (14 credits)

BIOL 200	(3)	Molecular Biology
BIOL 309	(3)	Mathematical Models in Biology
MATH 222	(3)	Calculus 3
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

One of:

MATH 223	(3)	Linear Algebra
MATH 247	(3)	Honours Applied Linear Algebra

U1 Complementary Courses (15 credits)

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

6 credits selected as follows:

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

3 credits, one of:

MATH 248	(3)	Honours Advanced Calculus
MATH 314	(3)	Advanced Calculus

3 credits, one of:

MATH 315	(3)	Ordinary Differential Equations
MATH 325	(3)	Honours Ordinary Differential Equations

U2 Required Courses (24 credits)

MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

U2 or U3 Required Courses (6 credits)

MATH 437	(3)	Mathematical Methods in Biology
PHYS 413	(3)	Physical Basis of Physiology

U3 Required Courses (18 credits)

BMDE 519	(3)	Biomedical Signals and Systems
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 324	(3)	Statistics
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

13.13.30.7 Bachelor of Science (B.Sc.) - Major Physiology and Physics (80 credits)

This program provides a firm foundation in physics, mathematics, and physiology. It is appropriate for students interested in applying methods of the physical sciences to problems in physiology and allied biological sciences.

U1 Required Courses (17 credits)

* The corequisite BIOL 200, BIOL 201 is waived for this program.

MATH 222	(3)	Calculus 3
PHGY 212*	(1)	Introductory Physiology Laboratory 1
PHGY 213*	(1)	Introductory Physiology Laboratory 2
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (21 credits)

MATH 326	(3)	Nonlinear Dynamics and Chaos
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHYS 328	(3)	Electronics
PHYS 339	(3)	Measurements Laboratory in General Physics

U2 or U3 Required Courses (6 credits)

MATH 437	(3)	Mathematical Methods in Biology
PHYS 413	(3)	Physical Basis of Physiology

U3 Required Courses (21 credits)

BMDE 519	(3)	Biomedical Signals and Systems
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

U1 Complementary Courses (9 credits)

3 credits, one of:

MATH 223	(3)	Linear Algebra
MATH 247	(3)	Honours Applied Linear Algebra

6 credits selected as follows:

** The corequisite BIOL 200, BIOL 201 is waived for this program.

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210**	(3)	Mammalian Physiology 2

U2 Complementary Courses (6 credits)

3 credits, one of:

MATH 315	(3)	Ordinary Differential Equations
MATH 325	(3)	Honours Ordinary Differential Equations

3 credits, one of:

MATH 248	(3)	Honours Advanced Calculus
MATH 314	(3)	Advanced Calculus

13.13.30.8 Bachelor of Science (B.Sc.) - Honours Physiology (75 credits)

All admissions to the Honours program will be in U2, and the student must have a U1 GPA of 3.30, with no less than a B in PHGY 209 and PHGY 210. Admission to U3 requires a U2 CGPA of 3.20 with no less than a B in U2 Physiology courses. Decisions for admission to U3 will be heavily influenced by student standing in U2 courses.

The Department reserves the right to restrict the number of entering students in the Honours program. Students who do not maintain Honours standing may transfer their registration to the Major program in Physiology.

The deadline to apply to the Honours program is May 21. Application forms are available online at physiology.med@mcgill.ca or a hard copy can be picked up at McIntyre 1021. An e-mail will be sent to acknowledge receipt of your application.

Graduation: To graduate from the Honours Physiology program, the student will have a CGPA of 3.20 with a mark no less than a B in all Physiology courses.

If not previously taken, CHEM 212 Introductory Organic Chemistry 1 must be completed in addition to the 75 program credits.

Required Courses (60 credits)

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 311	(3)	Channels, Synapses & Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 351	(3)	Research Techniques: Physiology
PHGY 359D1	(.5)	Tutorial in Physiology
PHGY 359D2	(.5)	Tutorial in Physiology
PHGY 459D1	(3)	Physiology Seminar
PHGY 459D2	(3)	Physiology Seminar
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

Complementary Courses (15 credits)

9 credits selected as follows:

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry

3 credits, one of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

Upper-Level Physiology (ULP) Courses

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

All Physiology courses 400 level and above.

ANAT 541	(3)	Cell and Molecular Biology of Aging
BIOL 532	(3)	Developmental Neurobiology Seminar
BMDE 519	(3)	Biomedical Signals and Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
PHGY 524	(3)	Chronobiology
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

13.13.30.9 Physiology (PHGY) Related Programs

13.13.30.9.1 Interdepartmental Honours in Immunology

For more information, see [section 13.13.17: Immunology](#). This program is offered by the Departments of Biochemistry, Microbiology and Immunology, and Physiology. Students interested in the program should contact Dr. C. Piccirillo, Microbiology and Immunology, ciro.piccirillo@mcgill.ca, 514-398-2872; or Dr. Monroe Cohen, Physiology, monroe.cohen@mcgill.ca, 514-398-4342.

13.13.31 Psychiatry (PSYT)

13.13.31.1 Location

1033 Pine Avenue West, Room 105
 Montreal, Quebec H3A 1A1
 Telephone: 514-398-4176
 Website: www.med.mcgill.ca/psychiatry

13.13.31.2 About Psychiatry

There are no B.Sc. programs in Psychiatry, but the PSYT courses listed below are administered by the Faculty of Science and are open to Arts and Science students and to graduate students.

PSYT 199	FYS: Mental Illness and the Brain
PSYT 301	Issues in Drug Dependence
PSYT 455	Neurochemistry
PSYT 500	Advances: Neurobiology of Mental Disorders
PSYT 502	Brain Evolution and Psychiatry
PSYT 503	Mental Health Services and Policy
PSYT 504	Issues in Forensic Mental Health
PSYT 505	Neurobiology of Schizophrenia
PSYT 515	Advanced Studies in Addiction

13.13.32 Psychology (PSYC)

13.13.32.1 Location

Stewart Biology Building, Room W8/1
 1205 Dr. Penfield Avenue
 Montreal, Quebec H3A 1B1

 Telephone: 514-398-6100
 Fax: 514-398-4896
 Email: info@psych.mcgill.ca
 Website: www.psych.mcgill.ca

13.13.32.2 About Psychology

The Department of Psychology offers programs in both Arts and Science. All B.A. programs in Psychology can be found under *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.42: Psychology (PSYC)*.

Psychology is the scientific study of mind and behaviour. It is both a social and a biological science. As a social science, psychology studies social interactions. As a biological science, it regards humans as the product of evolution and so studies them in biological perspective, comparing and contrasting human behaviour with that of other species.

The data of psychology are collected within the psychological laboratory by the use of experimental methods in the study of behaviour, and outside the laboratory by systematic observation of the behaviour of humans and animals. The aim is to formulate general principles of perception, learning, motivation, cognition, and social psychology that are relevant to different aspects of human life. Experimentation, laboratory techniques, observational procedures, measurement, and statistical methods are important tools of the psychologist.

Psychology has many interdisciplinary aspects. The study of psychological problems often involves knowledge drawn from other disciplines such as biology, physiology, linguistics, sociology, philosophy, and mathematics. For this reason, a student with varied interests can frequently find a place for these in psychology.

Psychology is a young science so that explanations of the processes underlying observed phenomena are often theoretical and speculative. The major objectives of psychological study are to reduce the discrepancy between theory and fact and to provide better answers about why humans think and behave as they do.

Although a number of undergraduate courses in psychology have applied implications, applied training is not the purpose of the undergraduate curriculum. Its purpose is to introduce the student to an understanding of the basic core of psychological knowledge, theory, and method, regardless of questions of practical application.

The B.Sc. or B.A. with a major or honours degree in psychology is not a professional qualification. It does not qualify the individual to carry on professional work in psychology. In the province of Quebec, the minimum requirement for membership in the Order of Psychologists, the professional association governing the work of psychologists in the province, is a doctoral degree. However, the Order also has a number of undergraduate course requirements that you should consult in planning your degree if you ultimately hope to apply for membership in the Order of Psychologists of Quebec. Please see their website: www.ordrepsy.qc.ca/en/psychologue/obligations/laws-and-regulations.sn. All students planning to practise in the province of Quebec will also be examined on their proficiency in French before being admitted to the professional association. Undergraduate courses in psychology may prove of considerable value to students planning careers in professional fields other than psychology. These include, but are not restricted to, medicine, education, social work, human communication sciences, or business and industry.

Students who are interested in psychology as a career must pursue graduate studies. Persons who hold graduate degrees in Psychology, usually the Ph.D., may find employment in universities, research institutes, hospitals, community agencies, government departments, large corporations, or may act as self-employed consultants. At the graduate level, psychology has many specialized branches including social psychology, physiological psychology, experimental psychology, clinical psychology, child psychology, industrial psychology, community psychology, educational psychology, and others.

Requirements for admission to graduate studies in Psychology vary from one university to another and from one country to another. Nonetheless, both the Honours and Major degrees in Psychology may qualify the student for admission to many graduate schools, provided that sufficiently high grades are obtained and, in some cases, that research experience has been obtained. During the U2 year, undergraduate students are strongly advised to verify the admission requirements of various graduate programs. This is to ensure that sufficient time is available for students to complete all necessary requirements for admission to their preferred graduate programs.

The essential differences between the Honours and the Major program are an emphasis on research methodology courses and practice in the Honours program, and that higher academic standards are required of Honours students. Honours students also have an opportunity to work in small groups closely with staff members.

13.13.32.3 Information Meetings for New Students

All new students entering the Psychology undergraduate program are required to attend an information meeting prior to registration. Students who have been accepted into a Bachelor of Science program in Psychology **must** attend one of these meetings. Newly admitted students from CEGEPs should attend the information session in June. There will be an identical information session in August for all other students and for any CEGEP students who could not attend the earlier meeting. Please check the Psychology Department website for the specific dates at: www.psych.mcgill.ca/ugrad/ugradm.htm. Students accepted into a Bachelor of Arts program must attend a different information meeting. (For details, see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Arts > Undergraduate > Academic Programs > section 3.10.42: Psychology (PSYC)*.) At this meeting, Paola Carvajal, the Academic Adviser, will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses. After this meeting, students will make appointments for individual advising sessions and fill out their Study Plan form for registration.

Entering students must bring their letter of acceptance and a copy of their collegial transcript(s). They will also need access to this publication and a preliminary Class Schedule before their individual advising session. Students will also find the *Psychology Department Handbook* helpful. It contains more detailed descriptions of Psychology courses and provides guidelines for how students might pursue particular areas of interest. The handbook is available on the Department website: www.psych.mcgill.ca/ugrad/ugradm.htm.

Students entering the Psychology program in January are strongly encouraged to visit the Academic Adviser, Paola Carvajal, in early December to clarify their course selections.

13.13.32.4 Psychology (PSYC) Faculty

Chair

David C. Zuroff

Emeritus Professors

Albert S. Bregman; M.A.(Tor.), Ph.D.(Yale)

Don C. Donderi; B.A., B.Sc.(Chic.), Ph.D.(C'nell)

Virginia I. Douglas; B.A.(Qu.), M.A., M.S.W., Ph.D.(Mich.)

Keith B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)

A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)

Ronald Melzack; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C. (*E.P. Taylor Emeritus Professor of Psychology*)

Peter M. Milner; B.Sc.(Leeds), M.Sc., Ph.D.(McG.)

James O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)

Yoshio Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)

Norman M. White; B.A.(McG.), M.S., Ph.D.(Pitt.)

Professors

Frances E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)
 Mark Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)
 Irving M. Binik; B.A.(NYU), B.H.L.(Jewish Theological Seminary), M.A., Ph.D.(Penn.)
 Blaine Ditto; B.S.(Iowa), Ph.D.(Ind.)
 Fred H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)
 Richard F. Koestner; B.A., Ph.D.(Roch.)
 Daniel J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (*James McGill Professor*)
 John Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)
 Jeffrey S. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (*E.P. Taylor Professor of Psychology and Canada Research Chair in Genetics of Pain*)
 Debbie S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)
 Karim Nader; B.Sc., Ph.D.(Tor.) (*James McGill Professor*)
 Yuriko Oshima-Takane; B.A.(Tokyo Women's Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)
 David J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)
 Caroline Palmer; B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(C'neil) (*Canada Research Chair in Cognitive Neuropsychology of Performance*)
 Michael Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.) (*joint appt. with Neurology and Neurosurgery*)
 Robert O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)
 Barbara B. Sherwin; B.A., M.A., Ph.D.(C'dia) (*Canada Research Chair on Hormones, Brain and Cognition*)
 Thomas R. Shultz; B.A.(Minn.), Ph.D.(Yale)
 Michael J.L. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia) (*Canada Research Chair in Behavioural Health*)
 Donald M. Taylor; B.A., M.A., Ph.D.(W. Ont.)
 David C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

Associate Professors

A.G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)
 Evan S. Balaban; B.A.(Mich. St.), Ph.D.(Rockefeller)
 Heungsun Hwang; B.A.(Chung-Ang Univ.), Ph.D.(McG.) (*William Dawson Scholar*)
 Baerbel Knaeuper; Dipl., Dr. phil.(U. of Mannheim), Dr. phil. habil.(Free Univ., Berlin)
 Morton J. Mendelson; B.Sc.(McG.), A.M., Ph.D.(Harv.)
 Gillian A. O'Driscoll; B.A.(Welles.), M.A., Ph.D.(Harv.)
 Kristine Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)
 Maria Pompeiano; M.D., Ph.D.(Pisa)
 Zeev Rosberger; B.Sc.(McG.), M.A., Ph.D.(C'dia) (*part-time*)
 Debra Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton) (*Canada Research Chair in Cognitive Neuroscience of Language and Memory*)

Assistant Professors

Jennifer A. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)
 Ian F. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (*part-time*)
 Yogita Chudusama; B.Sc., Ph.D.(Cardiff Univ.)
 Melanie Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)
 Jelena Ristic; B.A., M.A., Ph.D.(Br. Col.)
 Hsiu-Ting Yu; B.S.(Taiwan), M.S., M.A., Ph.D.(Ill.-Urbana-Champaign)

Lecturers

Rhonda Amsel; B.Sc., M.Sc.(McG.)

Lecturers

Paola Carvajal; B.Sc.(C'dia), M.A.(McG.)

Associate Members

Clinical Research Institute of Montreal: Terence J. Coderre

Douglas Hospital: Jorge Armony, Suzanne King, Martin Lepage, Jens Pruessner, Maria Natasha Rajah, Howard Steiger

Jewish General Hospital: David Dunkley, Phyllis Zekowitz

Montreal Neurological Institute: Alain Dagher, Lesley Fellows, Daniel Guitton, Marilyn Jones-Gotman, Brenda Milner, Edward Ruthazer, Wayne Sossin, Viviane Sziklas, Robert Zatorre

Psychiatry: Marco Leyton, Amir Raz

Schulich School of Music: Stephen McAdams

Vision Research Unit (Ophthalmology): Curtis Baker, Robert Hess, Frederick A.A. Kingdom, Kathleen Mullen

Adjunct Professors

M. Bruck; B.A.(Wheaton), M.A., Ph.D.(McG.)

S. Burstein; B.Sc.(McG.), M.A., Ph.D.(Wat.)

P. Delise; B.Sc., M.Ps., Ph.D.(Montr.)

S. Harnard; B.A.(McG.), M.A.(McG.), M.A., Ph.D.(Princ.)

Z. Pleszewski; M.A., Ph.D.(Poznan)

P. Zelazo; B.A.(Amer. Int'l. Coll.), M.S.(N. Carolina), Ph.D.(Wat.)

Part-time Appointments

Jennifer Coelho; B.Sc.(Br. Col.), M.A., Ph.D.(Tor.)

Frank Elgar; B.A., M.Sc., Ph.D.(Dal.)

Elizabeth Foley; B.Sc.(Tor.), Ph.D.(McG.)

Judith LeGallais; B.A., M.A., Ph.D.(McG.)

13.13.32.5 Admission Requirements to the Bachelor of Science (B.Sc.) – Honours Psychology

Applications can be obtained from the Undergraduate Office of the Department of Psychology, Room N7/9A, Stewart Biology Building. The applications must be completed and returned to the Undergraduate Office by August 1 for September admission. Candidates will be advised of the Department's decision via email before classes begin in September.

Students should note that awarding of the Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/380D2 and PSYC 482. "First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.50, a minimum program GPA of 3.50, and a minimum grade of A- in the required Honours courses, namely PSYC 380D1/380D2 and PSYC 482. "Honours" is awarded to students with a minimum cumulative grade point average of 3.00, a minimum program GPA of 3.00, and a minimum grade of B in the required Honours courses, namely PSYC 380D1/380D2 and PSYC 482. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Honours program. Students with particularly strong academic records may be admitted for the U3 year only on the basis of their marks and research experience. These students must complete all Honours program requirements.

For more information, see [section 13.13.32.9: Bachelor of Science \(B.Sc.\) - Honours Psychology \(60 credits\)](#).

13.13.32.6 Bachelor of Science (B.Sc.) - Minor Psychology (24 credits)

A minor program in Psychology is available to students registered in any B.Sc. program other than Psychology. This program is intended to complement a student's primary field of study by providing a focused introduction to specialized topics in psychology.

A separate minor concentration exists for students registered in a program in the Faculty of Arts.

The Minor program for Science students requires the completion of 24 credits, of which no more than 6 may overlap with the primary program. All courses in the Minor program must be passed with a minimum grade of C. A prerequisite to the program is PSYC 204 or equivalent.

Complementary Courses (24 credits)

at least 3, but no more than 6, credits selected from:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

18-21 credits selected from Psychology courses at the 300 level or above.

13.13.32.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Psychology (45 credits)

This Core Science Component Psychology requires the completion of 45 credits in Psychology, all of which need to be passed with a minimum grade of C. A prerequisite to the program is PSYC 100 or equivalent. Students completing a Liberal Program with a Core Science Component Psychology must also complete at least one breadth component in a second area.

Recommended Background

It is expected that most students who enter the Liberal program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course to be exempt from PSYC 204. In the first year, those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken Introductory Psychology in CEGEP must take PSYC 100.

Required Course (3 credits)

PSYC 204	(3)	Introduction to Psychological Statistics

Complementary Courses (42 credits)

9 credits from:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition and Quantitative Methods).

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective

PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology).

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships

PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

15 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

13.13.32.8 Bachelor of Science (B.Sc.) - Major Psychology (54 credits)

Students majoring in Psychology must obtain a minimum grade of C in all 54 credits of the program. A grade lower than C may be made up by taking another equivalent course (if there is one), by successfully repeating the course, or by successfully writing a supplemental examination (if there is one).

Recommended Background

It is expected that most students who enter the Major program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course. In the first year those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken the recommended collegial-level biology must take BIOL 111 or BIOL 112, and those who have not taken Introductory Psychology in college must take PSYC 100.

U1 Required Courses (12 credits)

Note: PSYC 100 may be taken as a corequisite with these basic courses.

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design

Complementary Courses (39 credits)

List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition and Quantitative Methods).

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology

PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology).

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology

PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

6 credits at the 300 level or above.

9 credits in Psychology at the 400 or 500 level.

12 credits at the 300 level or above in any of the following disciplines: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

13.13.32.9 Bachelor of Science (B.Sc.) - Honours Psychology (60 credits)

Honours in Psychology prepares students for graduate study, and so emphasizes practise in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Recommended Background

It is expected that most students who enter the Honours program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course. In the first year, those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken the recommended collegial-level biology must take BIOL 111 or BIOL 112, and those who have not taken Introductory Psychology in CEGEP must take PSYC 100.

Program Prerequisites

Admission to Honours is selective. Students with a cumulative grade point average (CGPA) of 3.00 or better are eligible to apply; however, since enrolment is limited, the usual CGPA for admission to this program is 3.50. Students must complete 27 graded credits in their U1 academic year to be eligible to apply to the Honours program.

Students must complete the following courses in their U1 year to be eligible to apply to the Honours program: PSYC 204, PSYC 211, PSYC 212, PSYC 213, and PSYC 215. Students are advised to complete PSYC 305 in their U1 year. Once in the Honours program, the student must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Honours students are encouraged to take at least 27 graded credits per academic year. This is also usually the minimum number of credits required to be eligible for fellowships and awards.

U1 Required Courses (12 credits)

Note: PSYC 100 may be taken as a corequisite with these basic courses.

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design

U2 Required Courses (9 credits)

PSYC 380D1	(4.5)	Honours Research Project Seminar
PSYC 380D2	(4.5)	Honours Research Project Seminar

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar

Complementary Courses (33 credits)

12 credits to be selected from the list below and any Psychology course at the 500 level.

PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 495	(6)	Psychology Research Project 2
PSYC 496	(6)	Senior Honours Research 1
PSYC 497	(6)	Senior Honours Research 2
PSYC 498D1	(4.5)	Senior Honours Research
PSYC 498D2	(4.5)	Senior Honours Research

List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition, and Quantitative Methods).

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning & Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective

PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication & Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction: Abnormal Psychology 1
PSYC 338	(3)	Introduction: Abnormal Psychology 2
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships

PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

9 credits at the 300 level or above selected from:

Anatomy and Cell Biology (ANAT), Biochemistry (BIOC), Biology (BIOL), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PYST), Psychology (PSYC).

13.13.33 Redpath Museum (REDM)

13.13.33.1 Location

Redpath Museum
859 Sherbrooke Street West
Montreal, Quebec H3A 0C4

Telephone: 514-398-4086 ext. 3188

Fax: 514-398-3185

Website: www.mcgill.ca/redpath

13.13.33.2 About the Redpath Museum

The Redpath Museum exists to foster the study of the history and diversity of the natural world. Its mandate includes biological, geological, and cultural diversity, and science education. It conducts academic teaching and research activities and also provides academic services to other units. The Redpath Museum offers a B.Sc. Minor program in Natural History. REDM courses listed below are considered as ones taught by the Faculty of Science.

Redpath Museum Courses

REDM 396	Undergraduate Research Project
REDM 399	Science Writing
REDM 400	Science and Museums
REDM 405	Natural History of East Africa
REDM 410	Writing Research Articles

13.13.33.3 Redpath Museum (REDM) Faculty

Director

David M. Green

Emeritus Professor

Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

Professor

David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F.L.S.

Associate Professors

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Biology*)

Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.) (*CRC Tier 2 Chair in Paleontology*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with McGill School of Environment*)

Assistant Professor

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

Faculty Lecturer

Linda Cooper; B.A.(C'dia), M.A.(McM.)

Associate Members

Biology: Graham A.C. Bell, Lauren J. Chapman

Earth & Planetary Sciences: Jeanne Paquette

McGill School of Environment: Colin A. Chapman

Tomlinson Project in University Level Science Education (T-PULSE): Nicholas de Takacsy

Adjunct Professors

Robert Holmes

Henry M. Reiswig

Michael Woloch

13.13.33.4 Bachelor of Science (B.Sc.) - Minor Natural History (24 credits)

The Minor Natural History involves the exploration of the natural world via specimen-based studies, object-oriented investigations and field studies. Museum collections are used to provide hands-on experience with real objects and specimens. The required course brings students to the Redpath Museum and other McGill natural science museums and exposes them to natural history methodologies and the value of specimen-based studies. Complementary course lists are drawn from a variety of disciplines to emphasize breadth and integration with the inclusion of specimen- or object-based courses and field courses in zoology, botany, and earth and environmental sciences. To ensure breadth, students are required to choose courses from among these lists. A compulsory field course component rounds out the program.

Required Course (3 credits)

REDM 400	(3)	Science and Museums

Complementary Courses (21 credits)

Students select 21 credits from among four course lists (A (Zoology), B (Botany), C (Earth and Environmental Sciences), and D (Field Courses)) with the following specifications.

- At least 3 credits and no more than 9 credits from each of Lists A, B, and C.

- At least 3 credits from List D.

- No more than 3 credits from any one list may be at the 200 level.

Note: Students may take up to a maximum of 9 credits of courses outside the Faculties of Arts and of Science.

List A: Zoology

* Note: BIOL 205 and BIOL 215 may be applied to either List A or List B.

** Note: Students may take either ENTO 330 or one of the cross-listed courses BIOL 350 and ENTO 350 as these courses have similar content.

AEBI 211	(3)	Organisms 2
ANTH 312	(3)	Zooarchaeology
BIOL 205*	(3)	Biology of Organisms
BIOL 215*	(3)	Introduction to Ecology and Evolution
BIOL 305	(3)	Animal Diversity

BIOL 350**	(3)	Insect Biology and Control
BIOL 352	(3)	Vertebrate Evolution
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 427	(3)	Herpetology
BIOL 463	(3)	Mammalian Evolution
ENTO 330**	(3)	Insect Biology
ENTO 350**	(3)	Insect Biology and Control
ENTO 440	(3)	Insect Diversity
ENTO 535	(3)	Aquatic Entomology
EPSC 334	(3)	Invertebrate Paleontology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

List B: Botany

* Note: BIOL 205 and BIOL 215 may be applied to either List A or List B.

AEBI 210	(3)	Organisms 1
BIOL 205*	(3)	Biology of Organisms
BIOL 215*	(3)	Introduction to Ecology and Evolution
BIOL 240	(3)	Monteregian Flora
BIOL 355	(3)	Trees: Ecology & Evolution
PLNT 304	(3)	Biology of Fungi
PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

List C: Earth and Environmental Sciences

BIOL 540	(3)	Ecology of Species Invasions
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 233	(3)	Earth and Life History
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 470	(3)	Wetlands
GEOG 550	(3)	Historical Ecology Techniques

List D: Field Studies

* Note: Students may take either of the cross-listed courses NRSC 405 and REDM 405, but not both.

Students may also take other field courses with the permission of the Program Adviser.

BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
BIOL 573	(3)	Vertebrate Palaeontology Field Course
ENTO 340	(3)	Field Entomology
EPSC 231	(3)	Field School 1
NRSC 405*	(3)	Natural History of East Africa
REDM 405*	(3)	Natural History of East Africa
WILD 475	(3)	Desert Ecology

13.13.34 Science or Mathematics for Teachers

13.13.34.1 Location

Dawson Hall, Room 405
853 Sherbrooke Street West
Montreal, Quebec H3A 0G5

Fax: 514-398-2157

Email: pete.barry@mcgill.ca

Website: www.mcgill.ca/scienceforteachers

13.13.34.2 About Science or Mathematics for Teachers

The training and certification of school teachers has traditionally been the responsibility of the Faculty of Education and requires the completion of a Bachelor of Education, subject to regulations set by the Government of Quebec. The Faculties of Education and of Science have introduced several programs for students who wish to combine Science or Mathematics with Education at McGill. These include the Minor in Education for Science Students, and the Concurrent B.Sc. and B.Ed. The traditional Bachelor of Education, Secondary Program, Science and Technology, or Secondary Program, Mathematics is also available within the Faculty of Education; see *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Education > Undergraduate > Department of Integrated Studies in Education > [section 5.9.4: Overview of Programs \(Integrated Studies in Education\)](#)*.

The Minor allows Science students to develop or explore an interest in Education without committing themselves to completing a B.Ed. degree. Science students who have taken this Minor will have completed a substantial number of the necessary credits for the B.Ed. degree should they wish to enrol in that program. The Minor also allows the possibility of transferring into the Concurrent B.Sc. and B.Ed. For details, see [section 13.13.34.4: Bachelor of Science \(B.Sc.\) - Minor Education for Science Students \(18 credits\)](#).

The Concurrent B.Sc. and B.Ed. is intended as a very rigorous but rewarding alternative to taking the B.Sc. and the B.Ed. in sequence. It is specifically designed to prepare teacher/scientists and is aligned with the requirements of the Quebec MERST. It has been designed to provide students with the opportunity to attain both a B.Sc. degree and a B.Ed. degree at the same time. It is highly structured and closely integrated so as to satisfy the academic requirements of both degrees.

To be admitted, candidates must satisfy the admission requirements of both faculties. Normally, students will be admitted to both components of the Concurrent B.Sc. and B.Ed. simultaneously. It is possible for students to apply for transfer into this program at any time during their B.Sc. or B.Ed. program. However, because this is a concurrent program, both degrees must be granted at the same convocation. After admission, students should contact one of the coordinators to discuss course selection and scheduling.

Students in the Concurrent B.Sc. and B.Ed. may apply to transfer to either a conventional B.Sc. or a conventional B.Ed. program. To do so, they must submit a Faculty Transfer Application to the appropriate Student Affairs Office. The decision will be based on their grades in the relevant component of the Concurrent program. Students who do transfer to a conventional program may not transfer back to the Concurrent program.

The two components of the Concurrent B.Sc. and B.Ed. are the B.Ed. Secondary Program (120 credits) and one of the B.Sc. programs for teachers (90 credits, or 120 credits for students who have not completed the basic sciences). They are combined in such a way that students complete 135 or 165 credits to fulfil all the requirements for graduation for both the B.Ed. and the B.Sc. These combinations are created exceptionally and exclusively for the Concurrent B.Sc. and B.Ed. For more detailed information about the Concurrent program, particularly how some elements are double-counted so as to satisfy the requirements of both the Faculty of Education and the Faculty of Science, see the program website: www.mcgill.ca/scienceforteachers.

Details of the nine different combinations, including an identification of the elements that are double-counted, are found at the links below. Eight combinations for Science have been specifically designed to align with the teachable subject areas in Education. Each incorporates one Major concentration and one Minor. Note that Major concentrations are not the same as Major programs. The Mathematics combination includes the Major, not the Major concentration, in Mathematics.

- [section 13.13.34.5: Concurrent Bachelor of Science \(B.Sc.\) and Bachelor of Education \(B.Ed.\) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers \(135 credits\)](#)

- *section 13.13.34.6: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers (135 credits)*
- *section 13.13.34.7: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers (135 credits)*
- *section 13.13.34.8: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers (135 credits)*
- *section 13.13.34.9: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers (135 credits)*
- *section 13.13.34.10: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers (135 credits)*
- *section 13.13.34.13: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers (135 credits)*
- *section 13.13.34.11: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers (135 credits)*
- *section 13.13.34.12: Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers (135 credits)*

13.13.34.3 Science or Mathematics for Teachers Faculty

Concurrent B.Sc. and B.Ed.

Coordinator – Science
Pete Barry
Telephone: 514-398-3202

Coordinator – Education
G. Seiler (*on leave*)
Telephone: 514-398-7106

Minor in Education for Science Students

Program Adviser
Joan Barrett
Student Affairs Office, Faculty of Education
General Information: 514-398-7042
Website: www.mcgill.ca/edu-sao/new/programs/minorseducation

13.13.34.4 Bachelor of Science (B.Sc.) - Minor Education for Science Students (18 credits)

This Minor allows Science students to develop or explore an interest in Education without committing themselves to completing a B.Ed. degree. Science students who have taken this Minor in Education will have completed a substantial number of the necessary credits for the B.Ed. degree should they wish to enrol in that program. The Minor also allows the possibility of transferring into the Concurrent B.Sc. and B.Ed. program, since the 18 credits for the Minor, with the exception of EDEM 220, are also among the Education courses required in this dual degree program. Equally, students having completed a B.Sc. degree, including the Minor, whose content substantially matches that of one of the Concurrent B.Sc. and B.Ed. combinations are likely eligible for a substantial number of advanced standing credits, as specified by the Faculty of Education.

For more information please contact:

Joan Barrett
Student Affairs Office, Faculty of Education
General Information: 514-398-7042
Website: <http://www.mcgill.ca/edu-sao/new/programs/minorseducation>

Required Course (3 credits)

EDPE 300	(3)	Educational Psychology

Complementary Courses (15 credits)

9 credits selected from:

One of:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice

One of:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

One of:

EDEC 247	(3)	Policy Issues in Quebec Education
EDEM 220	(3)	Contemporary Issues in Education

6 credits from the list below:

* Note: Students select either EDES 335 or EDES 353.

EDEC 262	(3)	Media, Technology and Education
EDES 335*	(3)	Teaching Secondary Science 1
EDES 353*	(3)	Teaching Secondary Mathematics 1
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Exceptional Students

13.13.34.5 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Cell/Molecular with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Cell/Molecular Biology with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Cell/Molecular
- 18 credits of Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation

EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses

25 credits selected as follows:

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology

Complementary Courses

At least 11 credits selected from:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading
BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses

15 credits selected as follows:

12 credits:

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13.13.34.6 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs." and "Quebec Teacher Certification".

The Major Concentration Biology - Organismal with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Organismal Biology with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Organismal
- 18 credits of Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www.mcgill.ca/science/sousa/bsc/freshman>.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System

MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)

EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Organismal (36 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses

24 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Complementary Courses

12 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 373	(3)	Biometry
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses (15 credits)

15 credits selected as follows:

12 credits:

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food

CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13.13.34.7 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Cell/Molecular with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Cell/Molecular Biology with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Cell/Molecular
- 18 credits of Minor Physics
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.

2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses*

29 credits selected as follows:

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser. Regardless of the substitution, students must take at least 36 credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
CHEM 212*	(4)	Introductory Organic Chemistry 1

Complementary Courses

At least 7 credits selected from:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading
BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13.13.34.8 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Biology - Organismal with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Organismal Biology with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

70 credits of Science Component consisting of:

- 37 credits of Major Concentration Biology - Organismal
- 18 credits of Minor Physics
- 15 credits of Additional Science Courses

5 credits of Electives, of which at least 2 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman Year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)

EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Organismal (37 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses*

28 credits selected as follows:

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Adviser. Regardless of the substitution, students must take at least 36 credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics
CHEM 212*	(4)	Introductory Organic Chemistry 1

Complementary Courses

9 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 352	(3)	Vertebrate Evolution
BIOL 373	(3)	Biometry
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music

PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

Electives (5 credits)

5 credits, of which at least 2 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13.13.34.9 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Chemistry with Minor Biology is one of the nine variations of the program and allows students to focus their Science degree in Chemistry with a subspecialization in Biology.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry
- 24 credits of the Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics

PHYS 131 (4) Mechanics and Waves

Second physics course, one of:

PHYS 102 (4) Introductory Physics - Electromagnetism

PHYS 142 (4) Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major concentration is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

18 credits

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Complementary Courses

18 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

Minor Biology (24 credits)

Required Courses

15 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

Complementary Courses

9 credits selected from the Biology Department's course offerings, at the 300 level or above.

Additional Science Courses (9 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13133410 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Chemistry with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Chemistry with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry
- 18 credits of the Minor Physics
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation

EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major concentration is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

18 credits selected as follows:

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Complementary Courses

18 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 263	(1)	Introductory Physical Chemistry 2 Laboratory
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1

Complementary Courses

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 260	(3)	Modern Physics and Relativity
PHYS 271	(3)	Introduction to Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

MATH 314

(3)

Advanced Calculus

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13133411 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Physics with Minor Biology is one of the nine variations of the program and allows students to focus their Science degree in Physics with a subspecialization in Biology.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Physics
- 24 credits of Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.

3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.

4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Physics (36 credits)

The Major Concentration Physics is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

30 credits selected as follows:

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 334	(3)	Advanced Materials
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

Minor Biology (24 credits)

24-25 credits for the Minor Biology selected as follows:

15 credits of required courses

9-10 credits of complementary courses

Required Courses

15 credits

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

Complementary Courses

9-10 credits of complementary courses, CHEM 212 and 6 selected from the Biology Department's course offerings, at the 300 level or above.

* Note: Students who have already taken CHEM 212 or its equivalent will choose another appropriate course, to be approved by the Adviser.

CHEM 212*	(4)	Introductory Organic Chemistry 1

Additional Science Courses (9 credits)

9 credits selected as follows:

6 credits:

BIOL 210	(3)	Perspectives of Science
MATH 203	(3)	Principles of Statistics 1

plus 3 credits, one additional Physics (PHYS) course approved by the Physics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13133412 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Concentration Physics with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Physics with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Physics
- 18 credits of the Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism

PHYS 142 (4) Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices (Secondary)
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education

EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Physics (36 credits)

The Major Concentration Physics is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

30 credits

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

Complementary Courses

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 334	(3)	Advanced Materials
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2

CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	Introductory Analytical Chemistry
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory

Additional Science Courses (15 credits)

15 credits selected as follows:

9 credits

BIOL 210	(3)	Perspectives of Science
CHEM 381	(3)	Inorganic Chemistry 2
MATH 203	(3)	Principles of Statistics 1

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs

plus 3 credits, one additional Physics (PHYS) course approved by the Physics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

~~1313~~13 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebec Teacher Certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Major Mathematics is one of the nine variations of the program and allows students to focus their Science degree in Mathematics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

54 credits of Science Component consisting of:

- 54 credits of the Major Mathematics

21 credits of Electives, of which at least 18 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses must satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115*	(4)	Accelerated General Chemistry: Giants in Science
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
MATH 133	(3)	Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

First calculus course, one of:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247*	(3)	Policy Issues in Quebec Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 262*	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices (Secondary)
EDES 353	(3)	Teaching Secondary Mathematics 1
EDES 453	(3)	Teaching Secondary Mathematics 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300*	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

EDEC 233*	(3)	First Nations and Inuit Education
EDEC 248*	(3)	Multicultural Education
EDEC 249*	(3)	Global Education and Social Justice

3 credits, one of the two following courses:

EDEC 260*	(3)	Philosophical Foundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Mathematics (54 credits)

Program Prerequisites

Students entering the Major program are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 54 credits for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses

27 credits

Where appropriate, Honours courses may be substituted for equivalent Major courses.

* Students select either MATH 249 or MATH 316 but not both.

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses

27 credits selected with the following specifications:

12 credits specifically required of students in the Concurrent B.Sc. and B.Ed. Major Mathematics:

COMP 202	(3)	Foundations of Programming
MATH 324	(3)	Statistics

MATH 338	(3)	History and Philosophy of Mathematics
MATH 348	(3)	Topics in Geometry

at least 3 credits from:

MATH 317	(3)	Numerical Analysis
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Structures 2

12 credits from:

It is highly recommended that students include MATH 318 and MATH 346 in their complementary courses.

MATH 204	(3)	Principles of Statistics 2
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 346	(3)	Number Theory
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Mathematical Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications

In consultation with an adviser, 3 of the 12 credits may be selected from other MATH courses or related disciplines.

Electives (21 credits)

21 credits of electives, of which at least 18 credits must be Science Electives chosen in consultation with the Science Adviser.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

13.13.35 Technological Entrepreneurship for Science Students

13.13.35.1 Location

Desautels Faculty of Management
1001 Sherbrooke Street West, Suite 110
Montreal, Quebec H3A 1G5

13.13.35.2 About Technological Entrepreneurship for Science Students

Please note that this program is currently under review. Students should register for the Minor in Management (for Non-Management students).

This Minor is geared toward Science students with an interest in entrepreneurship and key business topics. The set of six courses will introduce them to concepts and skills needed to effectively complement the technical expertise obtained. These concepts and skills form the basis of successful companies in the high technology sector, be they start-ups, small, or medium sized.

13.13.35.3 Bachelor of Science (B.Sc.) - Minor Technological Entrepreneurship for Science Students (18 credits)

(Please note that this program is currently under review.)

This Minor is geared to Science students with an interest in entrepreneurship and key business topics. The set of six courses will introduce you to concepts and skills needed to effectively complement the technical expertise obtained. These concepts and skills form the basis of successful companies in the high technology sector, be they start-ups, small or medium-sized.

Acceptance to the program is both competitive and restricted. Application procedures will be announced in September. Please consult Ron Critchley, Student Adviser, Desautels Faculty of Management Student Affairs Office, Bronfman 110, for details.

Students registered in the Minor Technological Entrepreneurship for Science Students may not take additional courses outside the Faculties of Arts and of Science.

To obtain the Minor, all courses must be completed with a grade of C or better.